Water Resources Data
Florida
Water Year 1989

Volume 3B. Southwest Florida Ground Water

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT FL-89-3B
Prepared in cooperation with the State of Florida
and with other agencies

I

CALENDAR FOR WATER YEAR 1989

1988

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1989

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Water Resources Data
Florida
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Prepared in cooperation with the State of Florida
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UNITED STATES DEPARTMENT OF THE INTERIOR

MANUEL LUJAN, JR., Secretary

GEOLOGICAL SURVEY

Dallas L. Peck, Director

For information on the water program in Florida write to
District Chief, Water Resources Division
U. S. Geological Survey
227 North Bronough Street, Suite 3015
Tallahassee, Florida 32301

1990

PREFACE

The volume of the annual hydrologic data report of Florida is one of a series of annual reports that document hydrologic data gathered from the U.S. Geological Survey's surface- and ground-water data-collection networks in each State, Puerto Rico, and the Trust Territories. These records of streamflow, ground-water levels, and quality of water provide the hydrologic information needed by State, local, and Federal agencies, and the private sector for developing and managing our Nation's land and water resources. Hydrologic data for Florida are contained in four volumes.

Volume 1. Northeast Florida
Volume 2. South Florida
Volume 3. Southwest Florida
Volume 4. Northwest Florida

This report is the culmination of a concerted effort by dedicated personnel of the U.S. Geological Survey who collected, compiled, analyzed, verified, and organized the data, and who typed, edited and assembled the report. The following individuals contributed significantly to the collection, processing, and tabulation of the data:

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This report was prepared in cooperation with the State of Florida and with other agencies under the general supervision of I. H. Kantrowitz, District Chief, Florida.

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16. Abstract (Limit: 200 words)

Water resources data for the 1989 water year in Florida consist of continuous or daily discharge for 295 streams, periodic discharge for 36 streams, miscellaneous discharge for 75 streams, continuous or daily stage for 154 streams, continuous daily tide stage for 12 sites, periodic stage for 13 streams, peak discharge for 57 streams, and peak stage for 30 streams; continuous or daily elevations for 73 lakes, periodic elevations for 72 lakes; continuous ground-water levels for 514 wells, periodic ground-water levels for 798 wells and miscellaneous water-level measurements for 2687 wells; quality-of-water data for 149 surface-water sites and 827 wells.

The data for southwest Florida include records of stage, discharge, and water quality of streams; stage, contents, water quality of lakes and reservoirs, and water levels and water quality of ground-water wells. Volume 3B contains records for continuous ground-water elevations for 200 wells; periodic ground-water elevations at 126 wells; miscellaneous ground-water elevations at 47 wells; and water quality at 167 ground-water sites.

These data represent the national Water Data System records collected by the U. S. Geological Survey and cooperating local, state, and federal agencies in Florida.

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WATER RESOURCES DATA FOR FLORIDA, 1989
Volume 3B: Southwest Florida

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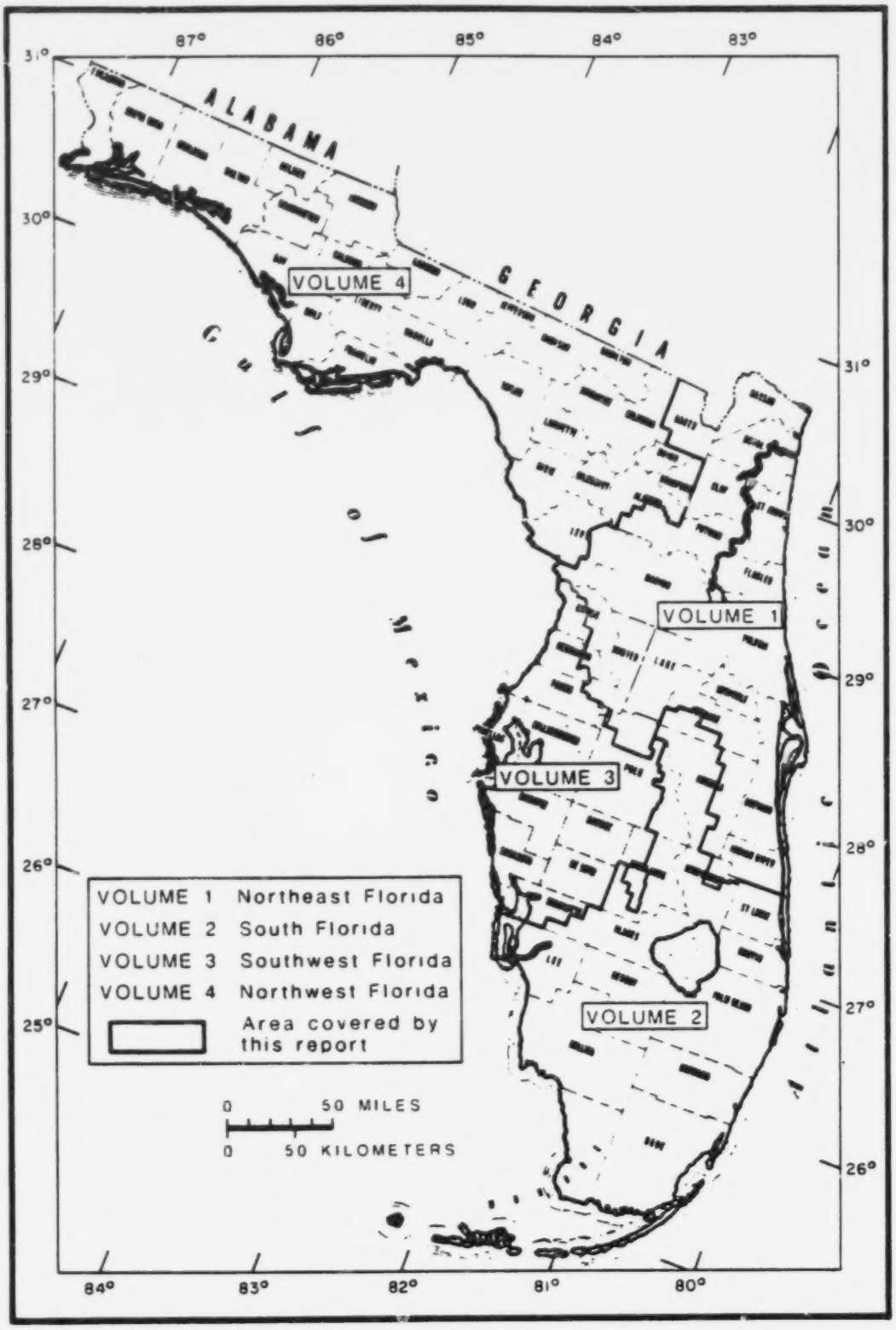


Figure 1.--Geographic area covered by this report.

INTRODUCTION

The Water Resources Division of the U.S. Geological Survey, in cooperation with State agencies, obtains a large amount of data pertaining to the water resources of Florida each water year. These data, accumulated during many water years, constitute a valuable data base for developing an improved understanding of the water resources of the State. To make these data readily available to interested parties outside the Geological Survey, the data are published annually in this report series entitled "Water Resources Data - Florida."

This report series includes records of stage, discharge, and water quality of streams; stage, contents, water quality of lakes and reservoirs, and water levels and water quality of ground-water wells. Volume 3B contains records for continuous ground-water elevations at 200 wells; periodic ground-water elevations at 126 wells; miscellaneous ground-water elevations at 847 wells; and water-quality at 167 ground-water sites. Locations of these sites are shown on figure 1. These data represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Florida.

This series of annual reports for Florida began with the 1961 water year with a report that contained only data relating to the quantities of surface water. For the 1964 water year, a similar report was introduced that contained only data relating to water quality. Beginning with the 1975 water year, the report format was changed to present, in one volume, data on quantities of surface water, quality of surface and ground water, and ground-water levels.

Prior to introduction of this series and for several water years concurrent with it, water-resources data for Florida were published in U.S. Geological Survey Water-Supply Papers. Data on stream discharge and stage and on lake or reservoir contents and stage, through September 1960, were published annually under the title "Surface-Water Supply of the United States." For the 1961 through 1970 water years, the data were published in two 5-year reports. Data on chemical quality, temperature, and suspended sediment for the 1941 through 1970 water years were published annually under the title "Quality of Surface Waters of the United States," and water levels for the 1935 through 1974 water years were published under the title "Ground-Water Levels in the United States." The above mentioned Water-Supply Papers may be consulted in the libraries of the principal cities of the United States and may be purchased from Distribution Branch, Text Products Section, U.S. Geological Survey, Books and Open-File Reports, Federal Center, Building 41, Box 25425, Denver, CO 80225.

Publications similar to this report are published annually by the Geological Survey for all States. These official Survey reports have an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as "U.S. Geological Survey Water-Data Report FL-89-3A and 3B." For archiving and general distribution, the reports for 1971-74 water years also are identified as water-data reports. These water-data reports are for sale in paper copy or in microfiche by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

Additional information, including current prices, for ordering specific reports may be obtained from the Office Chief at the address given on the back of the title page or by telephone (904) 681-7620.

COOPERATION

The U.S. Geological Survey and agencies of the State of Florida have had cooperative agreements for the collection of water-resource records since 1930. Organizations that assisted in collecting the data in this report through cooperative agreement with the Survey are:

Florida Department of Environmental Regulation
Manatee County Public Health Unit
Southwest Florida Water Management District
West Coast Regional Water Supply Authority
County of Hillsborough
County of Manatee
County of Pinellas
County of Polk
County of Sarasota
City of Bradenton
City of Sarasota
City of Tampa
Englewood Water District

SUMMARY OF HYDROLOGIC CONDITIONS

Rainfall in west-central Florida during the 1989 water year, compiled from eleven National Oceanic and Atmospheric Administration (NOAA) stations (fig. 2) ranged from 36.85 inches at Arcadia in De Soto County (Site 19) to 54.23 inches at Bartow in Polk County (Site 15). The 1989 water year total rainfall was lower at eight long-term stations and higher at 1 long-term station than the 1951-80 normal. Total rainfall at the nine stations ranged from 15.84 inches below normal at Arcadia to 0.54 inch above normal at Bartow and averaged 8.5 inches below normal. Ground-water levels are affected mainly by pumping and rainfall. Withdrawals within the sixteen-county report area average approximately 1.3 billion gallons per day, but pumpage varies seasonally. In general, water levels are lowest in May at the height of the spring dry season when pumping for lawn- and crop-irrigation totals about two billion gallons per day. Ground-water levels are highest in September at the end of the summer rainy season when there is little irrigation and pumping is less than half the May rate. Ground-water levels were generally lower in 1989 than in 1988 because of below-normal rainfall and a probable increase in pumpage.

Ground-water levels are measured in the surficial, intermediate, and Floridan aquifer systems. Water-level maps for the intermediate aquifer system in September 1988 and May and September 1989 are shown in figure 3. The maps were published independently, but water-level measurements used to construct the 1989 water-year maps are listed in this report. The maps indicate that water levels in the intermediate aquifer system averaged 4 feet lower in September 1989 than in September 1988. Water levels fluctuated as much as 29 feet due to climatic influences and pumping. The configuration of May and September 1989 intermediate aquifer system potentiometric surfaces varies significantly in southern Manatee, Sarasota, Hardee, DeSoto and Charlotte Counties. These fluctuations are an effect of increased withdrawals from the intermediate aquifer system for irrigation and wellfield production. The utilization of the intermediate aquifer system continues to grow as the water quality in the Upper Floridan aquifer declines in the southern part of the area.

The Upper Floridan aquifer is heavily pumped for irrigation, municipal, and industrial supplies. Water-level maps for the Upper Floridan aquifer system for September 1988 and May and September 1989 are shown in figure 3. The configuration of the potentiometric surface changed very little between May and September 1989 in the northern half of the report area where relatively constant pumping for municipal use has resulted in a cone of depression in central Pasco County. In the southern part of the area, pumping caused large water-level declines in May, resulting in a potentiometric surface below sea level beneath farmlands of southern Hillsborough County and the Verna wellfield in Sarasota County. Summer rains, combined with reduced pumping, helped water levels recover from the May 1989 low to a September 1989 high but below normal rainfall caused water levels to be about 4 feet lower than levels measured in September 1988. Figures 4-9 show representative hydrographs for the Upper Floridan aquifer and the relation between the mean monthly water levels in the 1989 water year and monthly maximum, minimum and median water levels for 10 years of record. Well numbers 2 and 4 (fig. 2) are representative of the northern part of the report area (figs. 4 and 5). Water levels for the 1989 water year in these wells were above the monthly median value from October 1988 to March 1989. Water levels were below the monthly median from April to September 1989. Well numbers 6, 7, 8 and 9 (fig. 2) are representative of the southern part of the report area (figs. 6-9). Water levels for the 1989 water year in these wells were below the monthly median value for the entire year. Water levels in well numbers 7, 8, and 9 were equivalent to the monthly minimum water level during February and May, October through June, and June through September.

Ground-water levels in coastal southwest Florida are also affected by tidal fluctuations in the Gulf of Mexico. Water levels can fluctuate several feet in a day. Figure 10 shows continuous water-level measurements in an Upper Floridan aquifer system well in Hernando County. Maximum daily water levels in this well lag behind the maximum tidal elevation in the Gulf of Mexico at Bayport, Florida due to tidal efficiency and dampening related to the hydraulic properties of the Upper Floridan aquifer system. Water-level fluctuations similar to those shown in figure 10 occur throughout the coastal region in the report area.

Ground-water quality

Much of the ground water-quality data in this report are associated with the monitoring of saltwater intrusion along the coast. Saltwater intrusion increases concentrations of chloride, sodium, and sulfate. Intrusion of saline water has been a problem for many years in west-central Florida; Pinellas County first experienced a problem in the 1920's when water-quality degradation became significant (Heath and Smith, 1954). Wetterhall (1964) noted that vertical layering of freshwater and saline water occurs along the coast in Pasco and Hernando Counties, and Sutcliffe (1975) documented similar problems in Charlotte County. Causseaux and Fretwell (1982) mapped the position of the saltwater-freshwater interface in the Upper Floridan aquifer.

Quality of water from tidally affected wells such as ROMP 19-2 (fig. 10) also can change daily in response to tidal fluctuations. Some of the large variations in chloride concentrations in this report are due to such tidal effects.

The graphs in figs. 11-14 exemplify changes in water quality in coastal areas. The selected well have interesting changes in concentration of chloride and specific conductance and sufficient record to show changes with time. They are not intended to be representaive of general ground-water conditions because ground-water quality can vary considerably over short distances. Figure 11 shows that the concentration of chloride in water from Ozello well 4 near Crystal River varies between 260 and 550 mg/L and demonstrates little variation with time. Figure 12 shows that chloride concentrations in water from ROMP TR 10-2 deep well near Tampa increased from about 100 mg/L in 1980 to about 175 mg/L in 1984, and have remained relatively stable since that time. The well was drilled in 1979 and early samples may reflect improper development of the well. Figure 13 shows an increase in chloride concentration in water from ROMP TR 6-1 Hawthorn well near Sarasota. The stair-step appearance of figures 12 and 13 is because chloride concentrations are reported to the nearest 10 mg/L for concentrations from 100 mg/L to 990 mg/L. Figure 14 shows specific conductance changes measured in the tidally affected ROMP 19-2 deep well near Bayport.

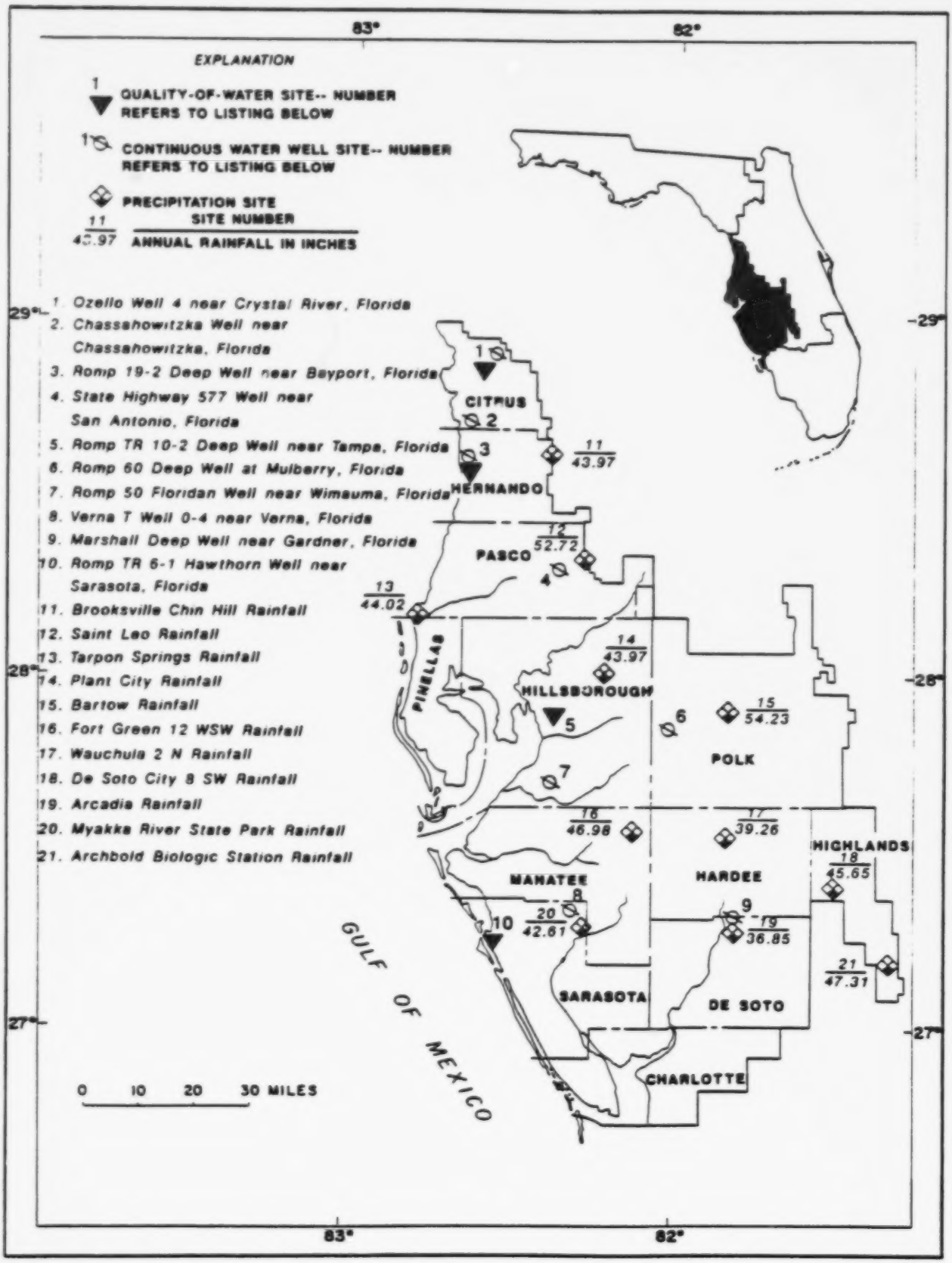


Figure 2.--Hydrologic conditions index map.

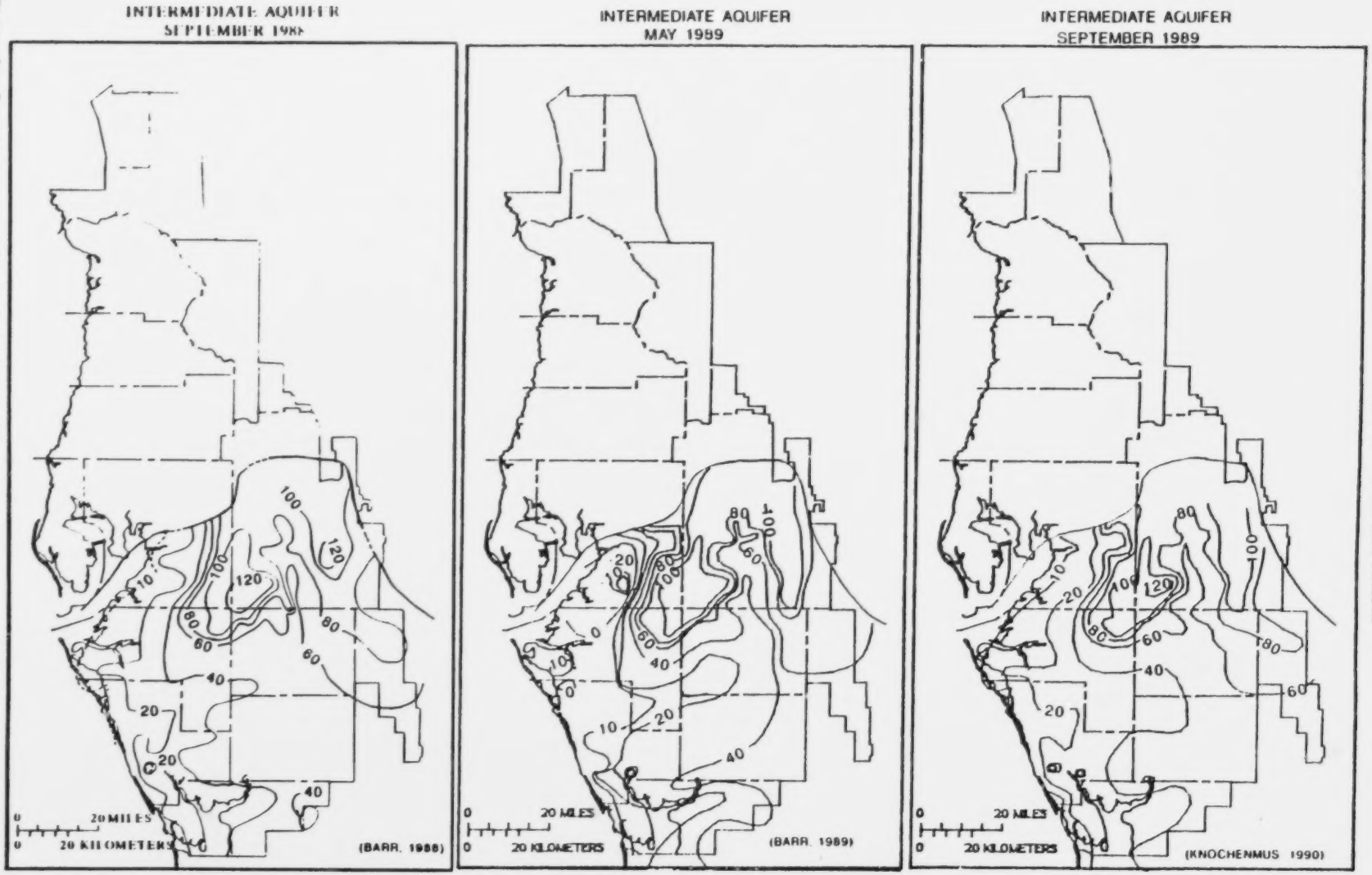
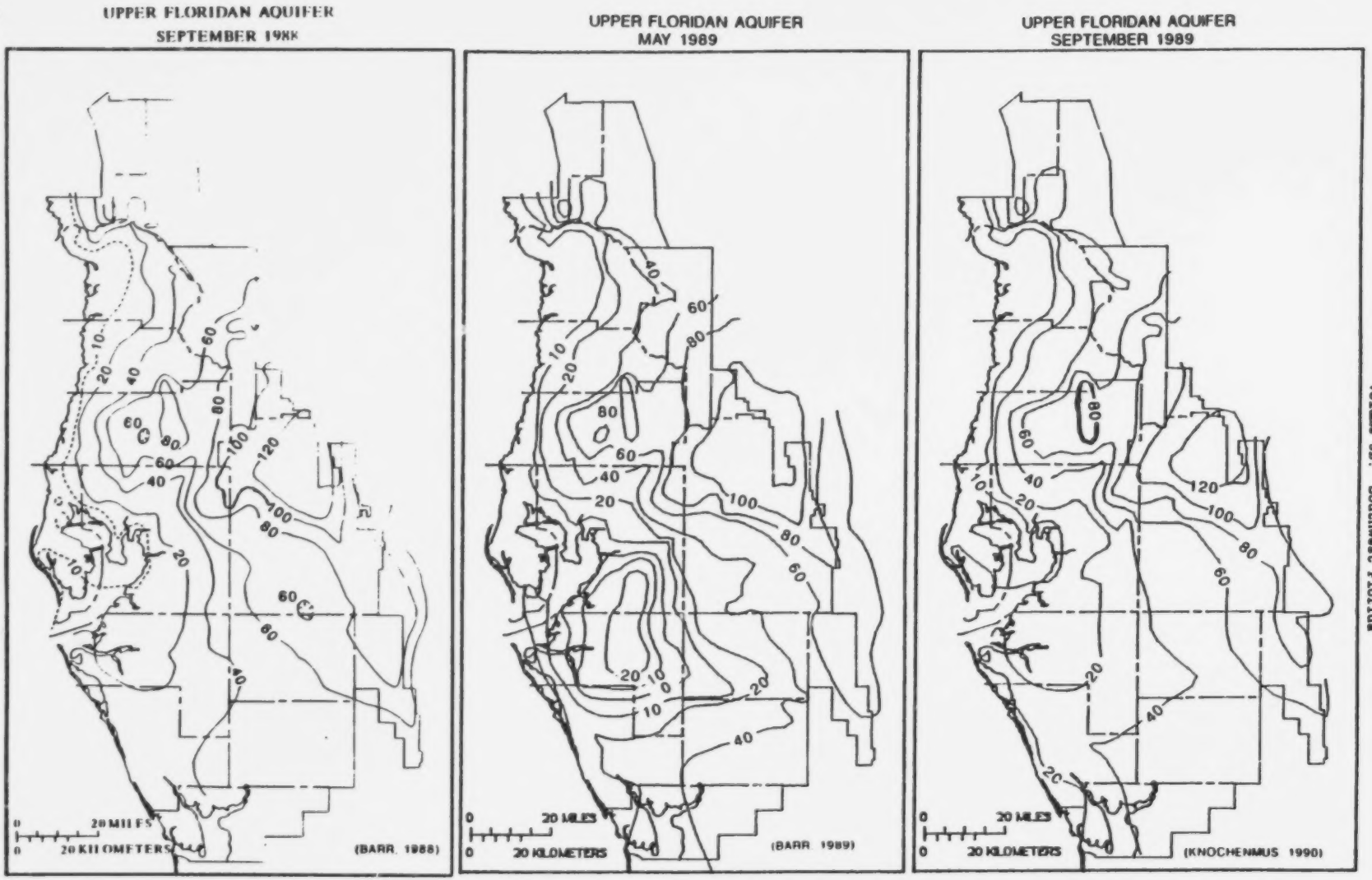


Figure 3.--Potentiometric surfaces of the intermediate aquifer system and Upper Floridan aquifer, southwest Florida, September 1988, May 1989, and September 1989.

—— 20 —— POTENTIOMETRIC CONTOUR--Shows altitude at which water level would have stood in tightly cased wells. Contour interval 20 feet with supplemental 10-foot contour (dashed). National Geodetic Vertical Datum of 1929 (NGVD). Hachures indicate depressions.



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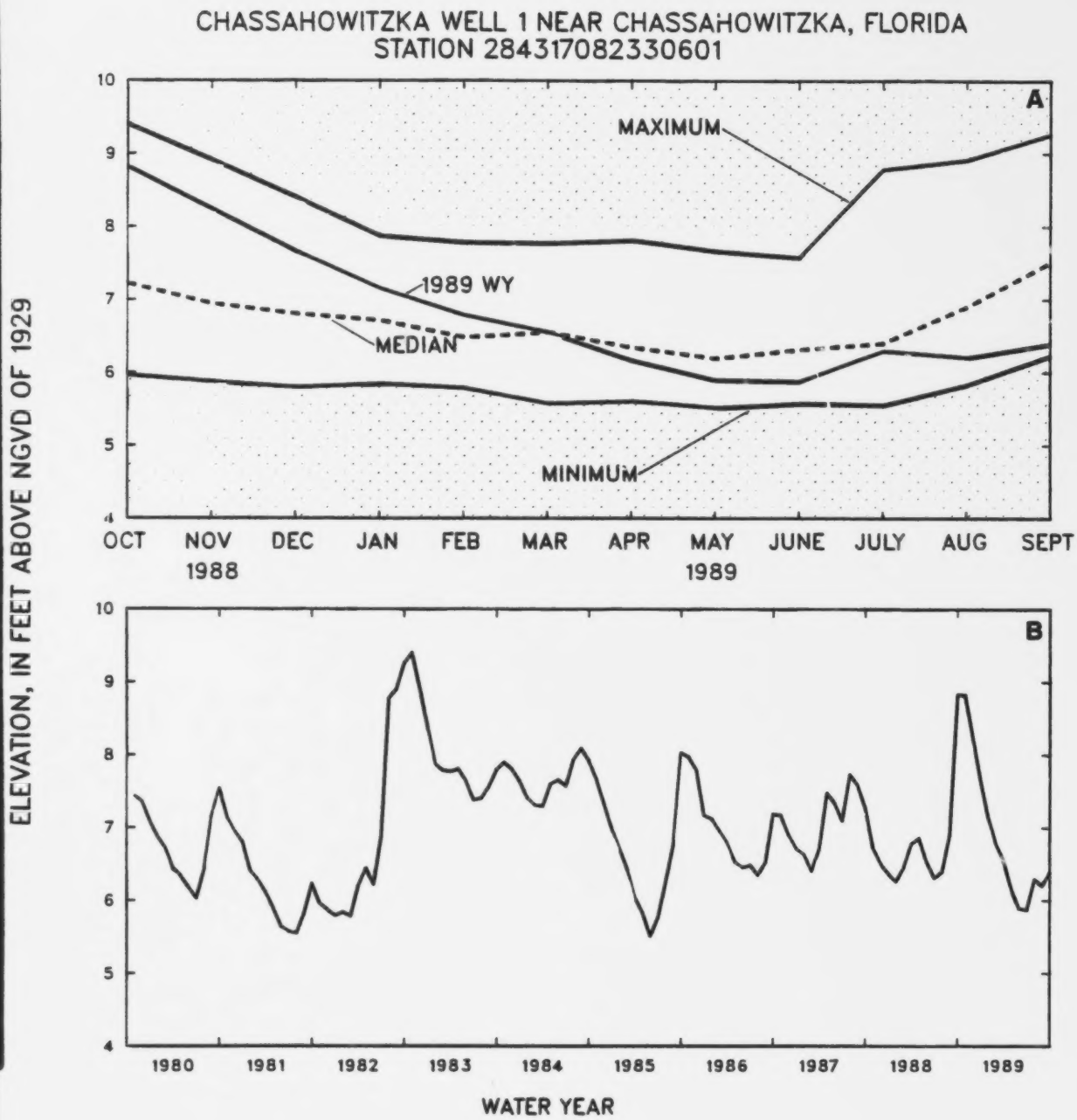

Figure 4.--Chassahowitzka Well 1 near Chassahowitzka (A) 1989 monthly mean elevation compared to the maximum, minimum, and median monthly mean elevation for the period of record, and (B) the monthly mean elevation for the period 1980-1989.

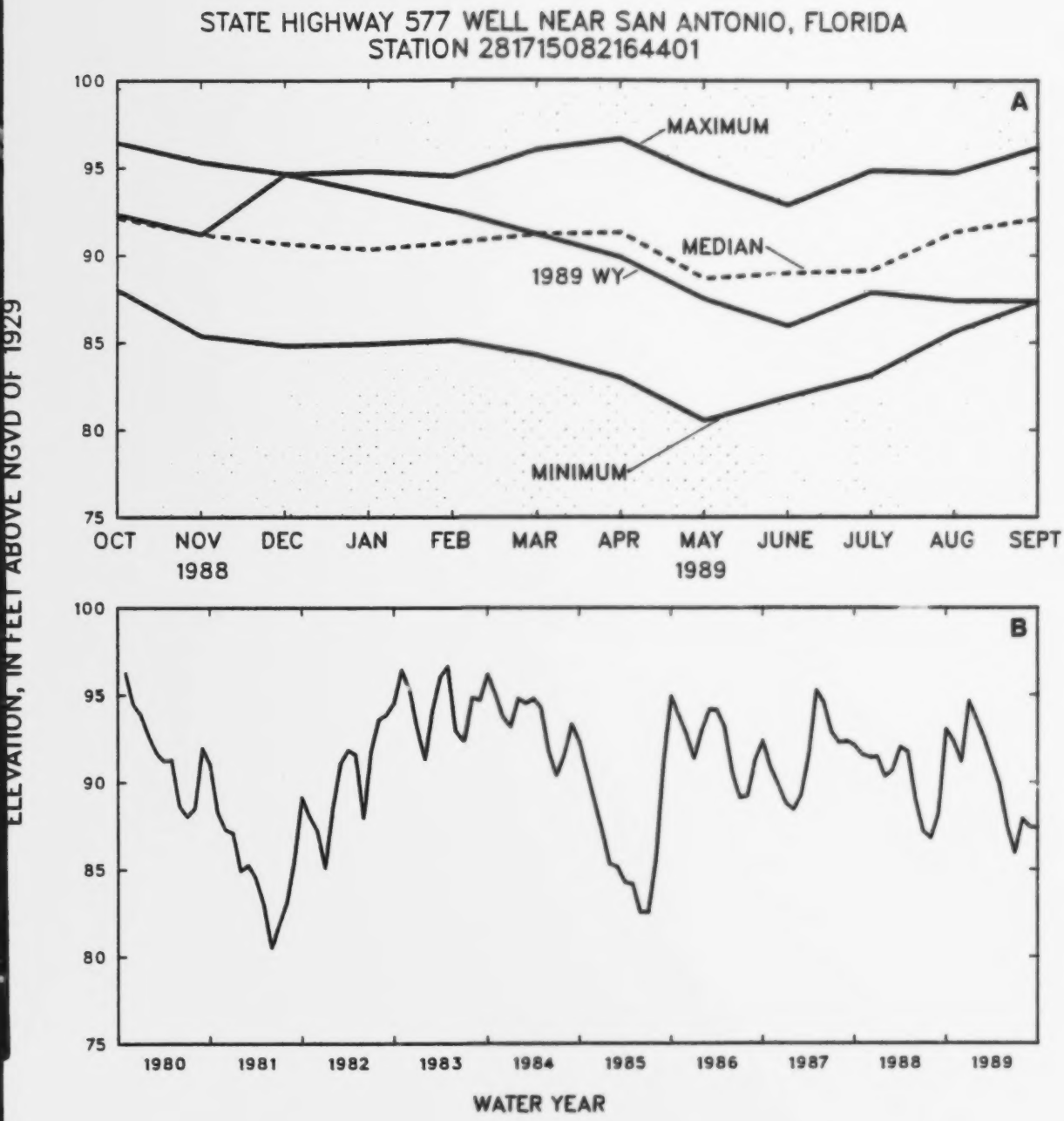

Figure 5.--State Highway 577 Well near San Antonio (A) 1989 monthly mean elevation compared to the maximum, minimum, and median monthly mean elevation for the period of record, and (B) the monthly mean elevation for the period 1980-1989.

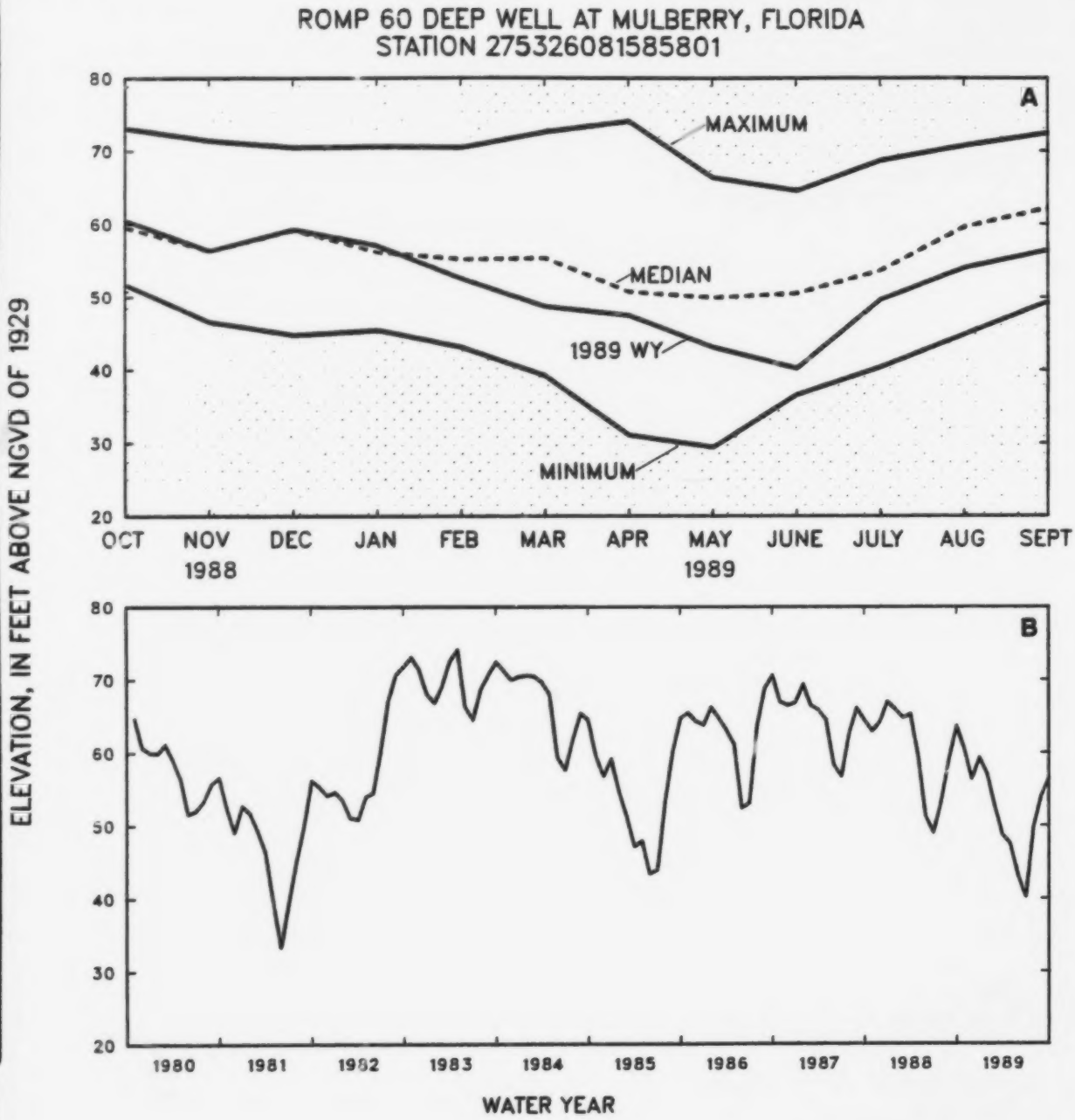

Figure 6.--Romp 60 Deep Well at Mulberry (A) 1989 monthly mean elevation compared to the maximum, minimum, and median monthly mean elevation for the period of record, and (B) the monthly mean elevation for the period 1980-1989.

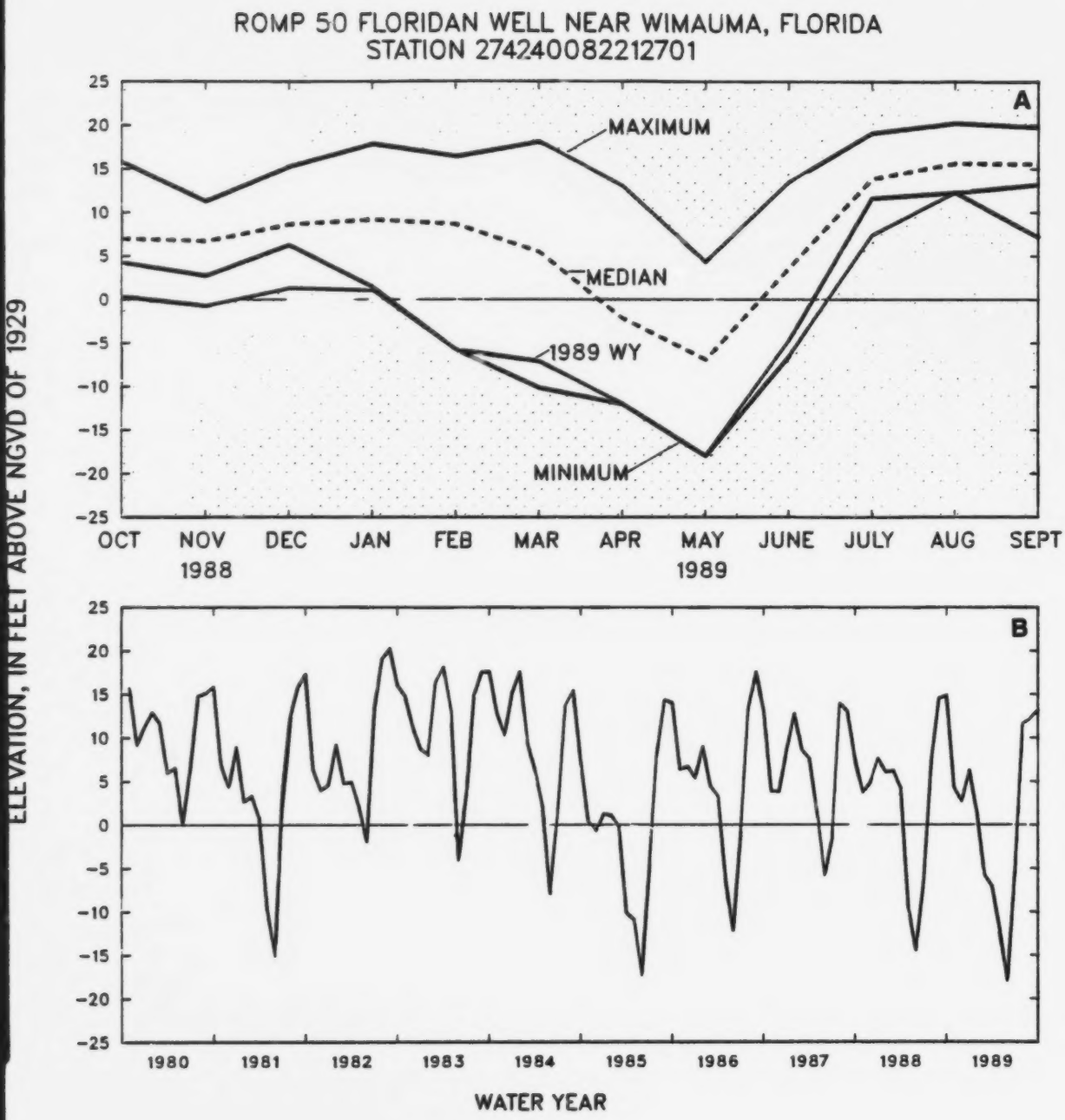

Figure 7.--Romp 50 Floridan Well near Wimauma (A) 1989 monthly mean elevation compared to the maximum, minimum and median monthly mean elevation for the period of record, and (B) the monthly mean elevation for the period 1980-1989.

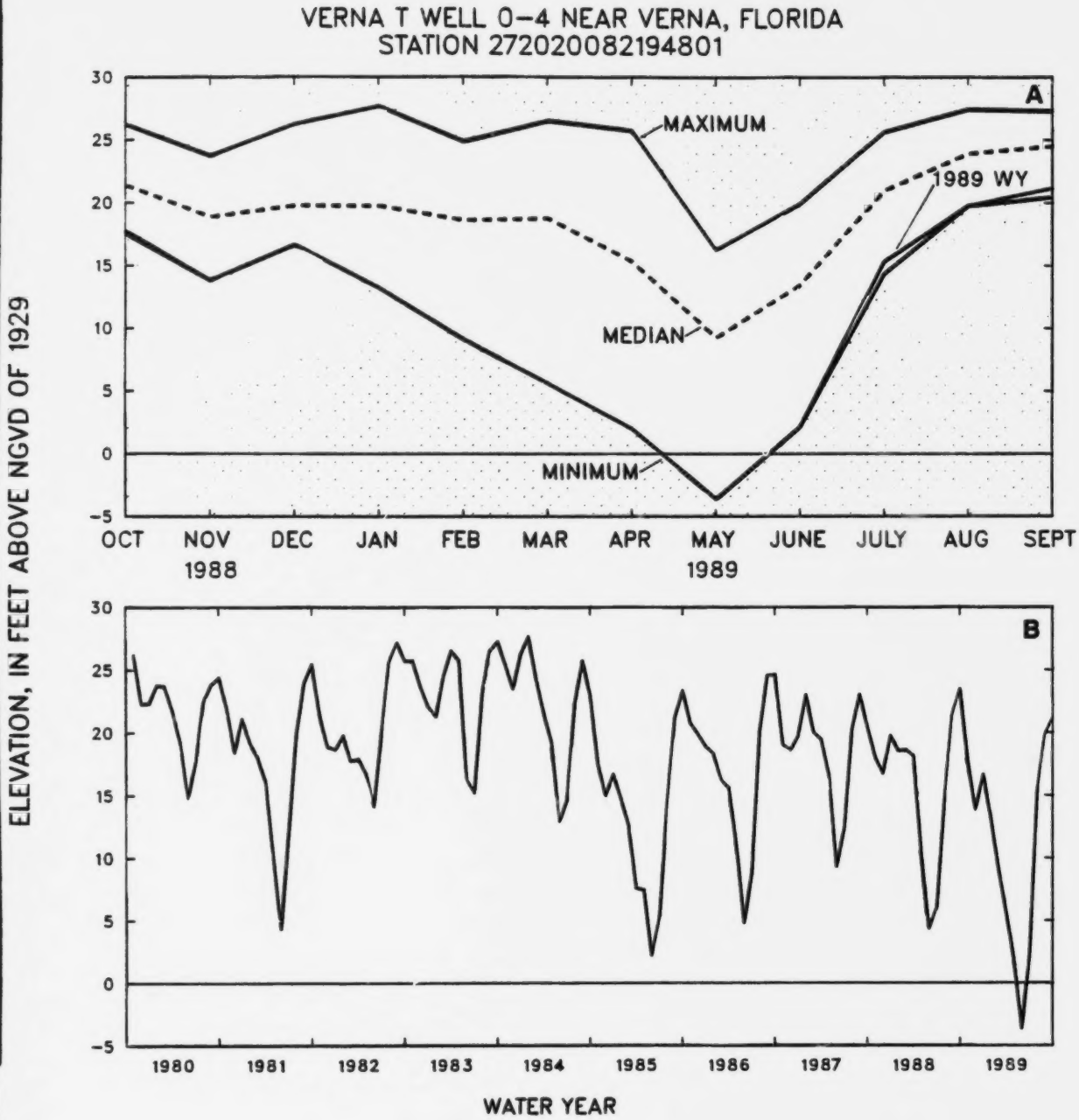

Figure 8.--Verna T Well 0-4 near Verna (A) 1989 monthly mean elevation compared to the maximum, minimum, and median monthly mean elevation for the period of record, and (B) the monthly mean elevation for the period 1980-1989.

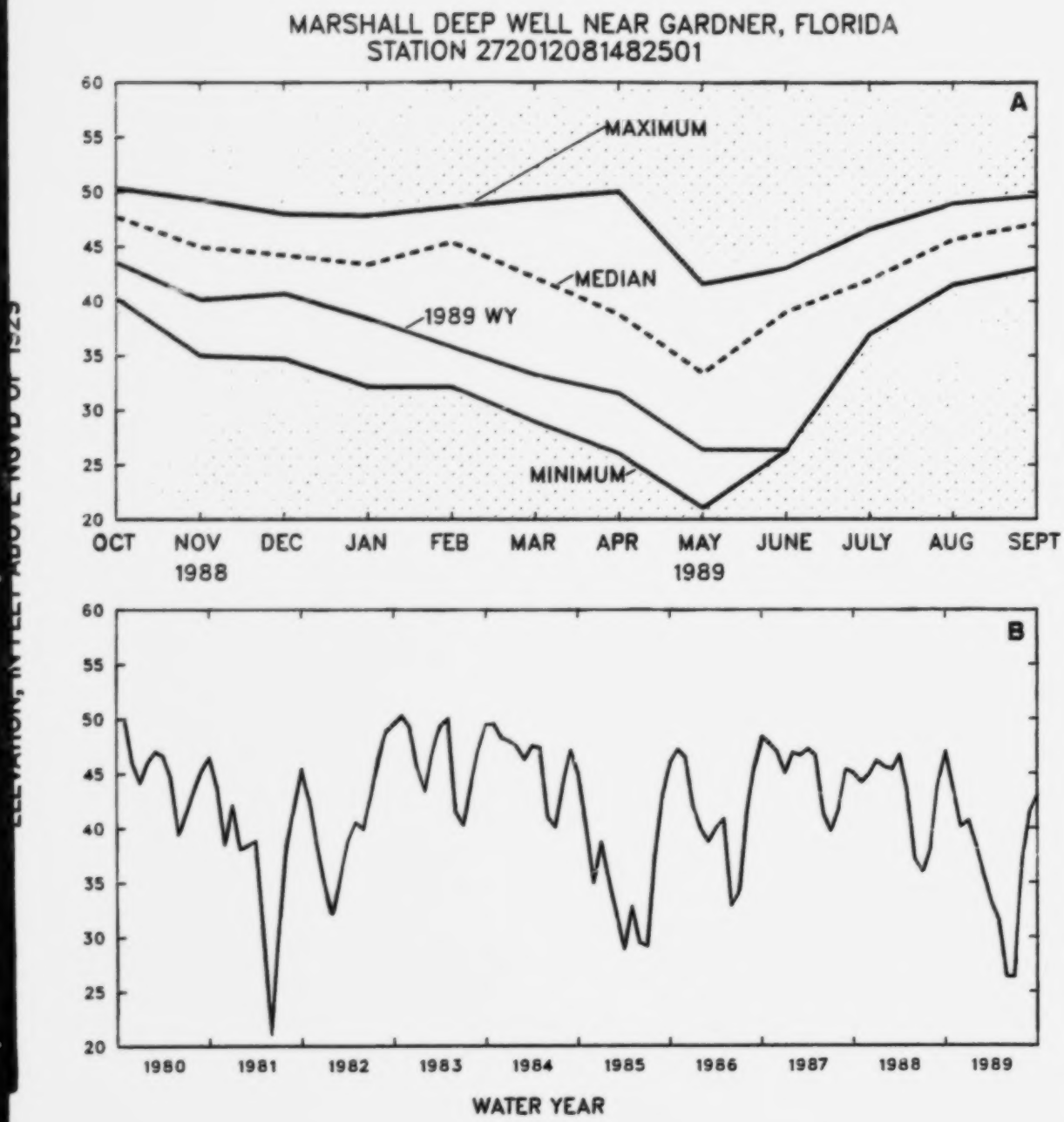

Figure 9.--Marshall Deep Well near Gardner (A) 1989 monthly mean elevation compared to the maximum, minimum, and median monthly mean elevation for the period of record, and (B) the monthly mean elevation for the period 1980-1989.

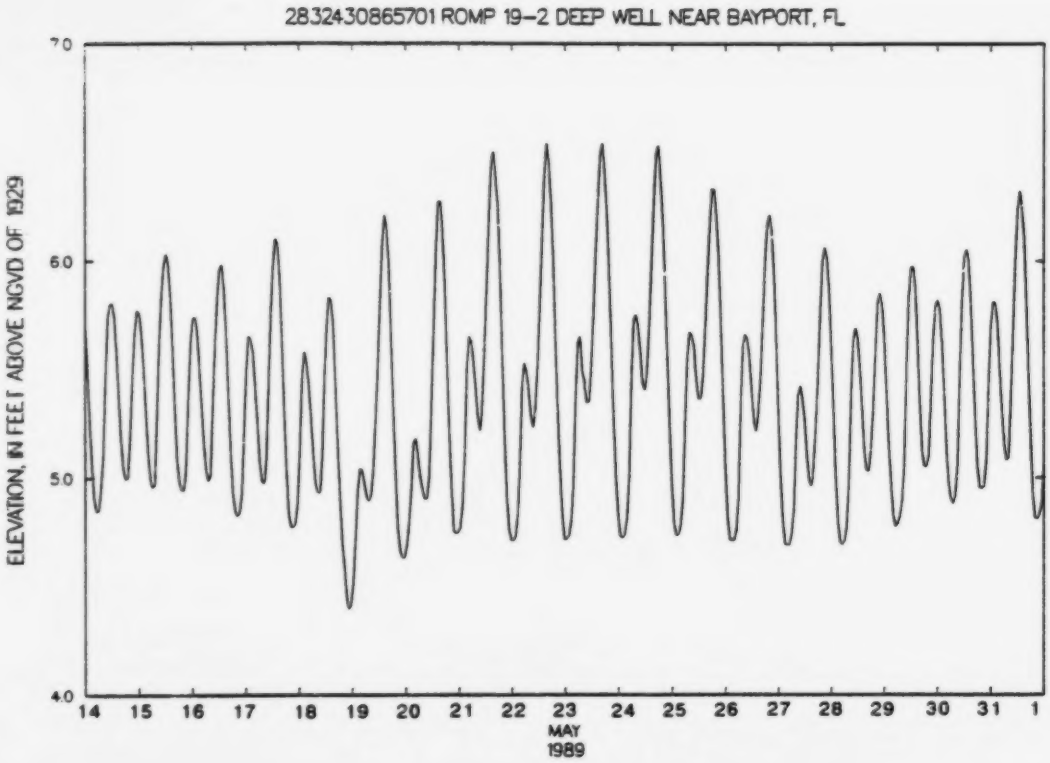

Figure 10.--Ground-water elevation for the period May 14 to June 1, 1989, showing effects of tidal fluctuations, 283243082365701 Romp 19-2 Deep Well near Bayport.

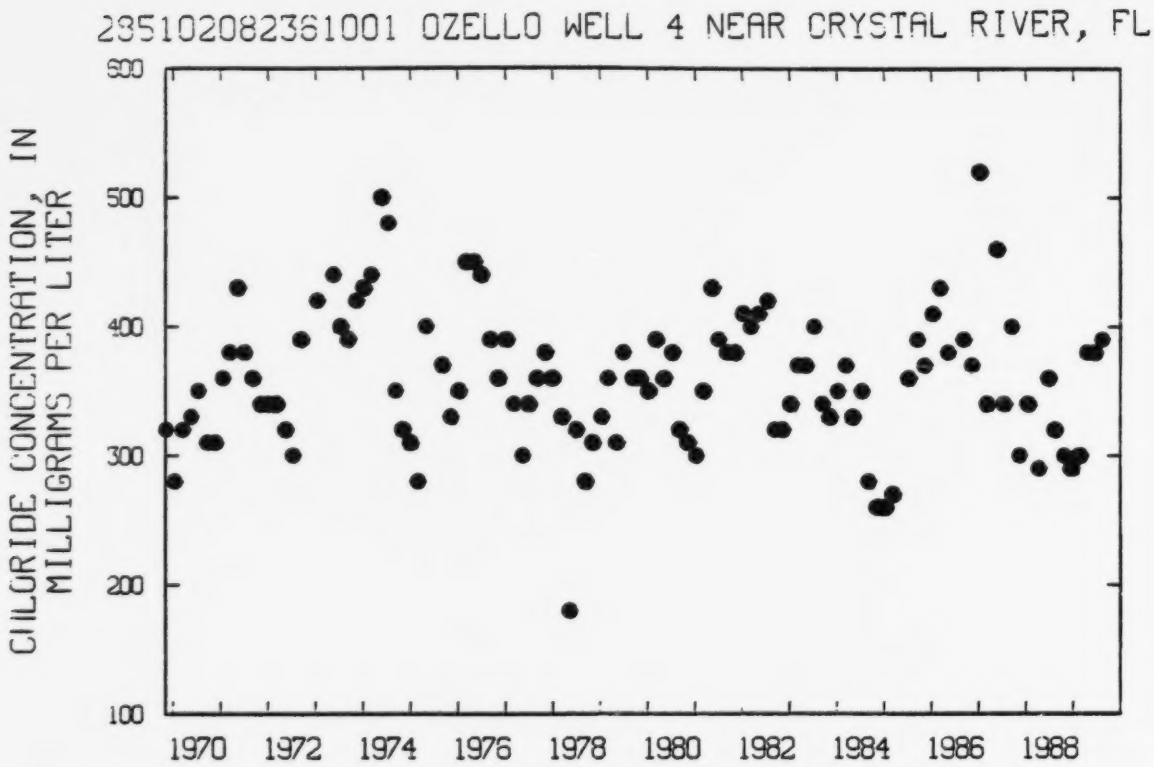

Figure 11.--Concentration of chloride in water from well 285102082361001 Ozello Well 4 near Crystal River.

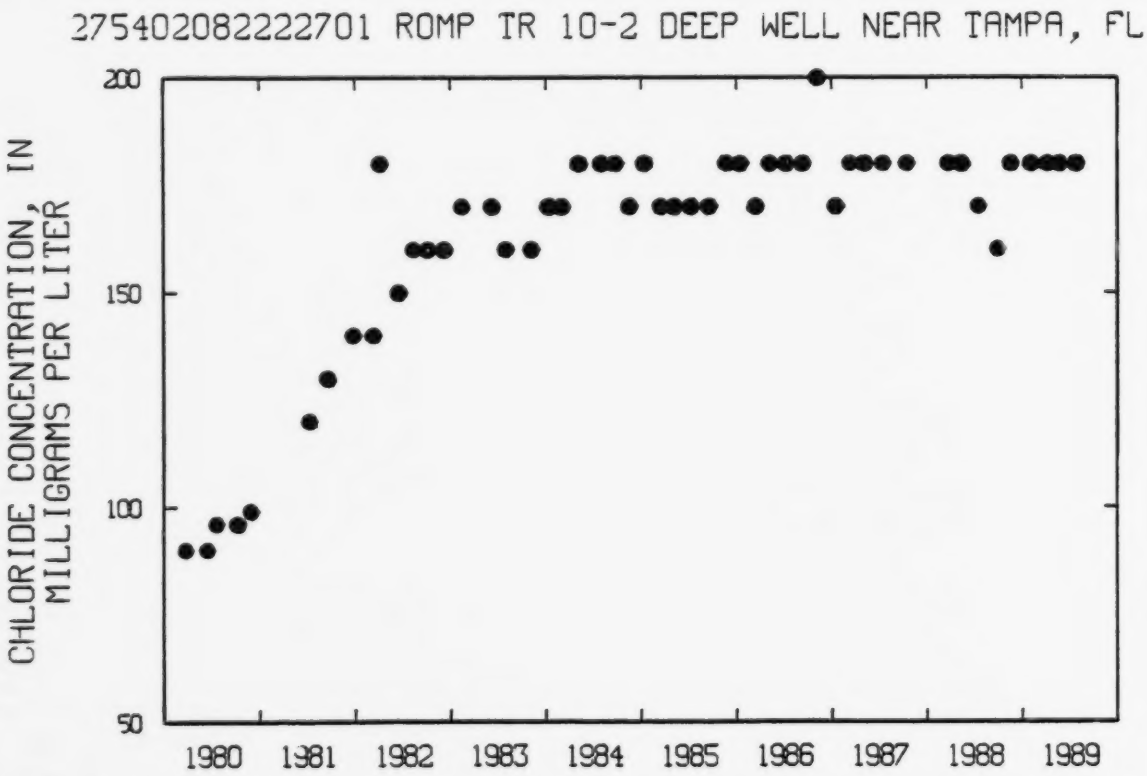

Figure 12.--Concentration of chloride in water from well 275402082222701 Romp TR 10-2 Deep Well near Tampa.

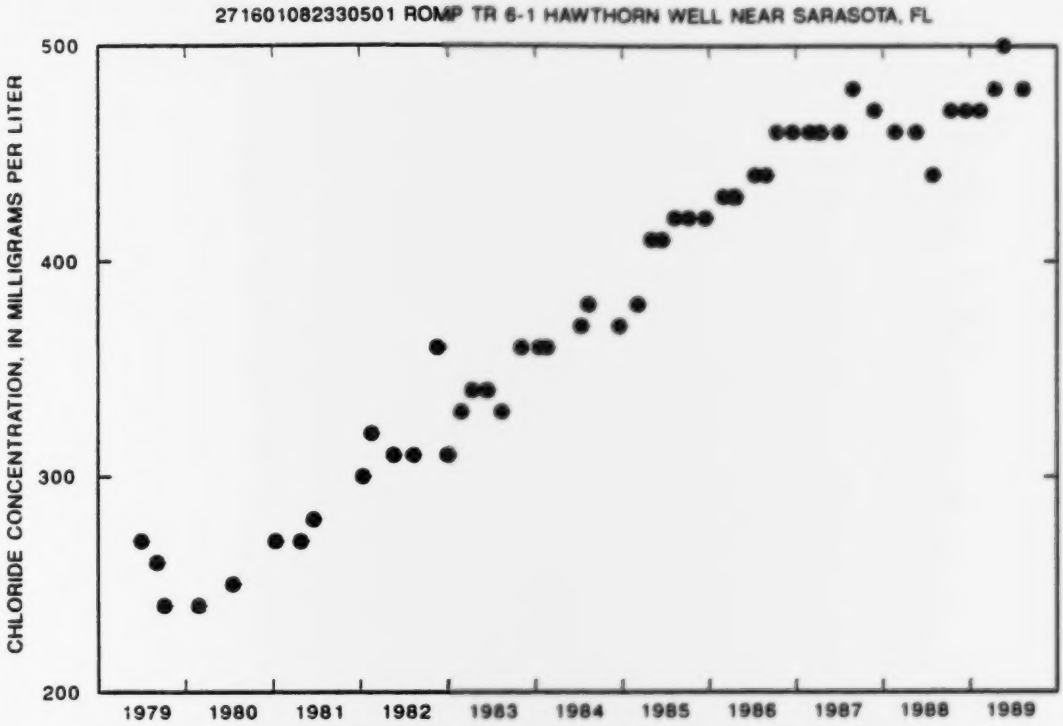

Figure 13.--Concentration of chloride in water from well 271601082330501 ROMP TR 6-1 Hawthorn Well near Sarasota

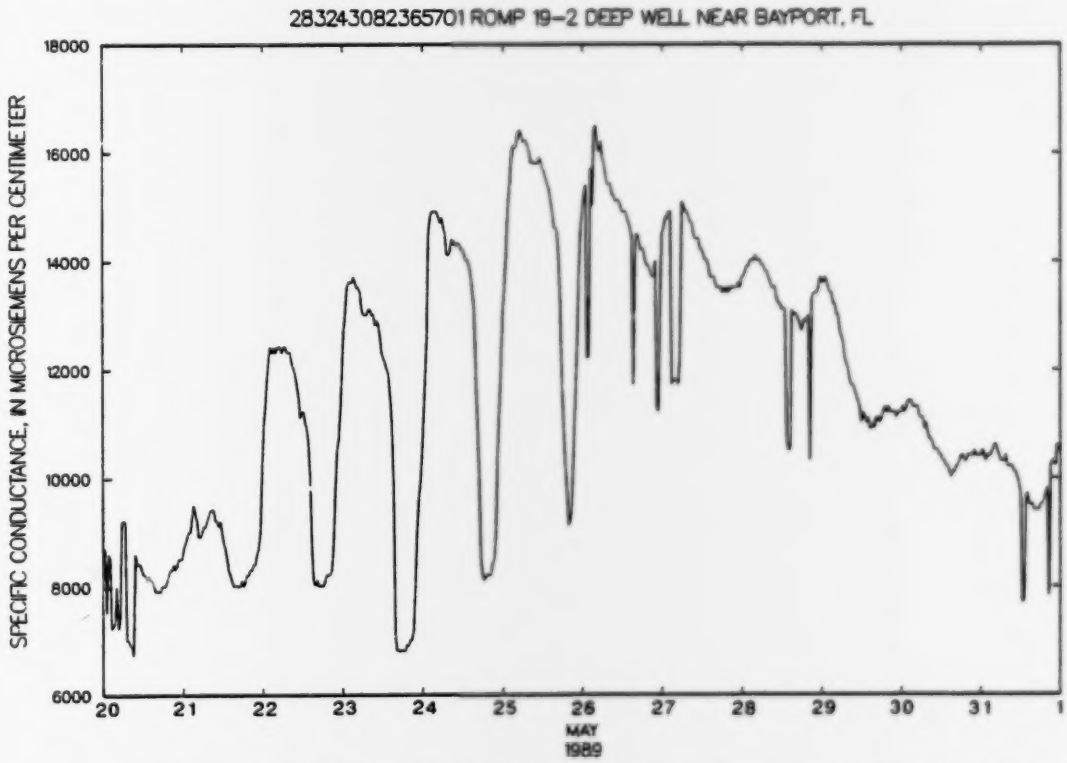

Figure 14.--Specific conductance in water from well 283243082365701 ROMP 19-2 Deep Well near Bayport

EXPLANATION OF THE RECORDS

The ground-water records published in this report are for the 1989 water year that began October 1, 1988, and ended September 30, 1989. A calendar of the water year is provided on the inside of the front cover. The records contain ground water-quality and water-level data. The following sections of the introductory text are presented to provide users with a more detailed explanation of how the hydrologic data published in this report were collected, analyzed, computed, and arranged for presentation.

Station Identification Numbers

Each data station in this report is assigned a unique identification number. This number is unique in that it applies specifically to a given station and to no other. The number usually is assigned when a station is first established and is retained for that station indefinitely. The system used by the U.S. Geological Survey to assign identification numbers is based on geographic location. The "latitude-longitude" system is used for wells.

Latitude-Longitude System

The identification numbers for wells are assigned according to the grid system of latitude and longitude. The number consists of 15 digits. The first six digits denote the degrees, minutes, and seconds of latitude, the next seven digits denote degrees, minutes, and seconds of longitude, and the last two digits (assigned sequentially) identify the wells or other sites within a 1-second grid. This site-identification number, once assigned, is a pure number and has no locational significance. In the rare instance where the initial determination of latitude and longitude are found to be in error, the station will retain its initial identification number; however, its true latitude and longitude will be listed in the LOCATION paragraph of the station description. (See figure 15.)

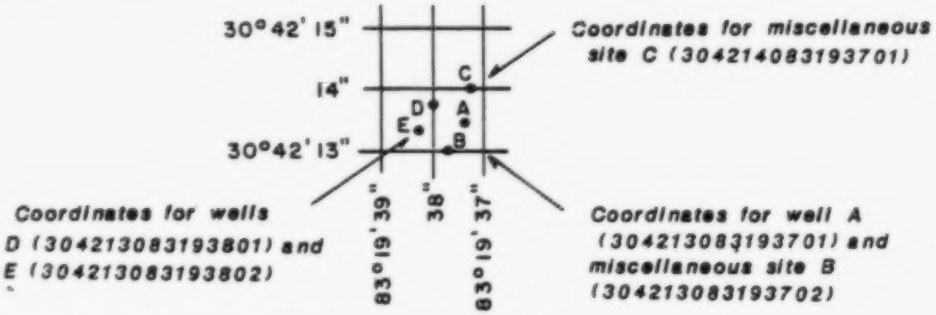

Figure 15.--System for numbering wells and miscellaneous sites. (latitude and longitude)

A second well-numbering system used in Florida utilizes 7 1/2-minute quadrangles within the State. The quadrangles are numbered from west to east, and lettered from south to north, omitting the letters "I" and "O." The designation for each quadrangle is determined by the method "Read Right, Up." Wells are numbered serially within each quadrangle. This local well number is shown immediately after the primary well number.

Well records furnished by the State of Florida also include the well number that is based on an indexing system used by the State Water Control Board.

Records of Ground-Water Levels

Ground-water level data from a national network of observation wells are given in this report. The records include data from wells equipped with water-level recorders and data from wells where water levels are measured periodically.

Data Collection and Computation

Measurements of water levels are made in many types of wells under varying conditions, but the methods of measurement are standardized to the extent possible. The equipment and measuring techniques used at each observation well ensure that measurements at each well are of consistent accuracy and reliability.

Tables of water-level data are presented by counties arranged in alphabetical order. The prime identification number for a given well is the 15-digit number that appears in the upper left corner of the table. The secondary identification number is the local well number, an alphanumeric number, derived from the township-range location of the well.

Water-level records are obtained from direct measurements with a steel tape, pressure gage, or from the graph or punched tape of a water-stage recorder. The water-level measurements in this report are given in feet above National Geodetic Vertical Datum of 1929 or in some tables as feet below land-surface datum (lsd). Land-surface datum is a datum plane that is approximately at land surface at each well. If known, the elevation of the land-surface datum is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported for every fifth day and the end of each month (eom).

Water levels are reported to as many significant figures as can be justified by the local conditions. For example, in a measurement of a depth to water of several hundred feet, the error of determining the absolute value of the total depth to water may be a few tenths of a foot, whereas the error in determining the net change of water level between successive measurements may be only a hundredth or a few hundredths of a foot. For lesser depths to

water, the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot, but some are given to a tenth of a foot or a larger unit.

Data Presentation

Each well record consists of two parts, the station description and the data table of water levels observed during the water year. The description of the well is presented first through use of descriptive headings preceding the tabular data. The following comments clarify information presented under the various headings.

LOCATION.--This paragraph follows the well-identification number and reports the latitude and longitude (given in degrees, minutes, and seconds); a landline location designation; the hydrologic-unit number; the distance and direction from a geographic point of reference; and the owner's name.

AQUIFER.--This entry designates by name (if a name exists) and geologic age the aquifer(s) open to the well.

WELL CHARACTERISTICS.--This entry describes the well in terms of depth, diameter, casing depth and/or screened interval, method of construction, use, and additional information such as casing breaks, collapsed screen, and other changes since construction.

INSTRUMENTATION.--This paragraph provides information on both the frequency of measurement and the collection method used, allowing the user to better evaluate the reported water-level extremes by knowing whether they are based on weekly, monthly, or some other frequency of measurement.

DATUM.--This entry describes both the measuring point and the land-surface elevation at the well. The measuring point is described physically (such as top of collar, notch in top of casing, plug in pump base and so on), and in relation to land surface (such as 1.3 ft above land-surface datum). The elevation of the land-surface datum is described in feet above (or below) National Geodetic Vertical Datum of 1929 (NGVD of 1929); it is reported with a precision depending on the method of determination.

REMARKS.--This entry describes factors that may influence the water level in a well or the measurement of the water level. It should identify wells that also are water-quality observation wells, and may be used to acknowledge the assistance of local (non-Survey) observers.

PERIOD OF RECORD.--This entry indicates the period for which there are published records for the well. It reports the month and year of the start of publication of water-level records by the U.S. Geological Survey and the words "to current year" if the records are to be continued into the following year. Periods for which water-level records are available, but are not published by the Geological Survey, may be noted.

EXTREMES FOR PERIOD OF RECORD.--This entry contains the highest and lowest water levels of the period of published record, with reference to National Geodetic Vertical Datum of 1929 and the dates of their occurrence.

A table of water levels follows the station description for each well. Water levels are reported in feet above National Geodetic Datum of 1929 and all taped measurements of water level are listed. For wells equipped with recorders, only abbreviated tables are published; generally, maximums are listed for every fifth day and at the end of the month (eom). The highest water level of the water year is shown on a line below the abbreviated table. Because all values are not published for wells with recorders, the extremes may be values that are not listed in the table. Missing records are indicated by dashes in place of the water level.

Records of Ground-Water Quality

Records of ground-water quality in this report differ from other types of records in that, for most sampling sites, they consist of only one set of measurements for the water year. The quality of ground water ordinarily changes slowly; therefore, for most general purposes, one annual sampling, or only a few samples taken at infrequent intervals during the year, is sufficient. Frequent measurement of the same constituents is not necessary unless one is concerned with a particular problem, such as monitoring for trends in nitrate concentration. In the special cases where the quality of ground water may change more rapidly, more frequent measurements are made to identify the nature of the changes.

Data Collection and Computation

The records of ground-water quality in this report were obtained mostly as a part of special studies in specific areas. Consequently, a number of chemical analyses are presented for some counties but none are presented for others. As a result, the records for this year, by themselves, do not provide a balanced view of ground-water quality Statewide. Such a view can be attained only by considering records for this year in context with similar records obtained for these and other counties in earlier years.

Most methods for collecting and analyzing water samples are described in the "U.S. Geological Survey Techniques of Water-Resources Investigations" manuals listed at the end of the introductory text. The values reported in this report represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. All samples were obtained by trained personnel. The wells sampled were pumped long enough to assure that the water collected came directly from the aquifer and had not stood for a long time in the well casing where it would have been exposed to the atmosphere and to the material, possibly metal, comprising the casings.

Data Presentation

The records of ground-water quality are published in a section titled QUALITY OF GROUND WATER immediately following the ground-water-level records for each county. Data for quality of ground water are listed alphabetically by County, and are identified by well number. The prime identification number for wells sampled is the 15-digit number derived from the latitude-longitude locations. No descriptive statements are given for ground-water-quality records; however, the well number, depth of well, date of sampling, and other pertinent data are given in the table containing the chemical analyses of the ground water. The REMARK codes listed for surface-water-quality records are also applicable to ground-water-quality records.

Remark Codes

The following remark codes may appear with the water-quality data in this report:

PRINTED OUTPUT	REMARK
E	Estimated value
>	Actual value is known to be greater than the value shown
<	Actual value is known to be less than the value shown
K	Results based on colony count outside the acceptance range (non-ideal colony count)
L	Biological organism count less than 0.5 percent (organism may be observed rather than counted)
D	Biological organism count equal to or greater than 15 percent (dominant)
&	Biological organism estimated as dominant

Rounding Clarification

Values for some constituents analyzed by routine methods are tabulated with extraneous trailing zeros that are not significant digits. Extraneous zeros result because data obtained from low-level methods that have better (lower) detection limits are stored under the same parameter code as data obtained by routine analytical methods.

ACCESS TO WATSTORE DATA

The National WATer Data STOrage and REtrieval System (WATSTORE) was established for handling water data collected through the activities of the U.S. Geological Survey and to provide for more effective and efficient means of releasing the data to the public. The system is operated and maintained on the central computer facilities of the Survey at its National Center in Reston, Virginia.

WATSTORE can provide a variety of useful products ranging from simple data tables to complex statistical analyses. A minimal fee, plus the actual computer cost incurred in producing a desired product, is charged to the requester. Information about the availability of specific types of data, the acquisition of data or products, and user charges can be obtained locally from the offices whose addresses are given on the back of the title page.

General inquiries about WATSTORE may be directed to:

Chief Hydrologist
U.S. Geological Survey
437 National Center
Reston, Virginia 22092

DEFINITION OF TERMS

Terms related to water-quality, and other hydrologic data, as used in this report, are defined below. See also table for converting English units to International System (SI) Units on the inside of the back cover.

Adenosine triphosphate (ATP) is an organic, phosphate-rich, compound important in the transfer of energy in organisms. Its central role in living cells makes it an excellent indicator of the presence of living material in water. A measure of ATP therefore provides a sensitive and rapid estimate of biomass. ATP is reported in micrograms per liter of the original water sample.

Algae are mostly aquatic single-celled, colonial, or multi-celled plants, containing chlorophyll and lacking roots, stems, and leaves.

Algal growth potential (AGP) is the maximum algal dry weight biomass that can be produced in a natural water sample under standardized laboratory conditions. The growth potential is the algal biomass present at stationary phase and is expressed as milligrams dry weight of algae produced per liter of sample.

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs.

Artesian means confined and is used to describe a well in which the water level stands above the top of the aquifer tapped by the well. A flowing artesian well is one in which the water level is above the land surface.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, while others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

Biomass is the amount of living matter present at any given time, expressed as the mass per unit area or volume of habitat.

Ash mass is the mass or amount of residue present after the residue from the dry mass determination has been ashed in a muffle furnace at a temperature of 500°C for 1 hour. The ash mass values of zooplankton and phytoplankton are expressed in grams per cubic meter (g/m^3), and periphyton and benthic organisms in grams per square mile (g/m^2).

Dry mass refers to the mass of residue present after drying in an oven at 105°C for zooplankton and periphyton, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry-mass values are expressed in the same units as ash mass.

Organic mass or volatile mass of the living substance is the difference between the dry mass and ash mass and represents the actual mass of the living matter. The organic mass is expressed in the same units as for ash mass and dry mass.

Wet mass is the mass of living matter plus contained water.

Cells/volume refers to the number of cells of any organism which is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample, usually milliliters (mL) or liters (L).

Chlorophyll refers to the green pigments of plants. Chlorophyll a and b are the two most common green pigments in plants.

Color unit is produced by one milligram per liter of platinum in the form of the chloro-platinate ion. Color is expressed in units of the platinum-cobalt scale.

Dissolved refers to that material in a representative water sample which passes through a 0.45 um membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate.

Dissolved-solids concentration of water is determined either analytically by the "residue-on-evaporation" method, or mathematically by totaling the concentrations of individual constituents reported in a comprehensive chemical analysis. During the analytical determination of dissolved solids, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. Therefore, in the mathematical calculation of dissolved-solids concentration, the bicarbonate value, in milligrams per liter, is multiplied by 0.492 to reflect the change.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is computed as the sum of equivalents of polyvalent cations and is expressed as the equivalent concentration of calcium carbonate ($CaCO$).

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by an eight-digit number.

Land-surface datum (lsd) is a datum plane that is approximately at land surface at each ground-water observation well.

Measuring point (MP) is an arbitrary permanent reference point from which the distance to the water surface in a well is measured to obtain the water level.

Metamorphic stage refers to the stage of development that an organism exhibits during its transformation from an immature form to an adult form. This developmental process exists for most insects, and the degree of difference from the immature stage to the adult form varies from relatively slight to pronounced, with many intermediates. Examples of metamorphic stages of insects are egg-larva-adult or egg-nymph-adult.

Methylene blue active substances (MBAS) are apparent detergents. The determination depends on the formation of a blue color when methylene blue dye reacts with synthetic anionic detergent compounds.

Micrograms per gram (ug/g) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the element per unit mass (gram) of material analyzed.

Micrograms per liter (UG/L, ug/L) is a unit expressing the concentration of chemical constituents in solution as mass (micrograms) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram per liter.

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represents the mass of solute per unit volume (liter) of water. Concentration of suspended sediment also is expressed in mg/L and is based on the mass of dry sediment per liter of water-sediment mixture.

National Geodetic Vertical Datum of 1929 (NGVD of 1929) is a geodetic datum derived from a general adjustment of the first order level nets of both the United States and Canada. It was formerly called "Sea Level Datum of 1929" or "mean sea level" in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place.

Organism is any living entity.

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per area habitat, usually square meter (m^2), acre, or hectare. Periphyton, benthic organisms, and macrophytes are expressed in these terms.

Organism count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually milliliter (mL) or liter (L). Numbers of planktonic organisms can be expressed in these terms.

Total organism count is the total number of organisms collected and enumerated in any particular sample.

Parameter Code is a 5-digit number used in the U.S. Geological Survey computerized data system, WATSTORE, to uniquely identify a specific constituent. The codes used in WATSTORE are the same as those used in the U.S. Environmental Protection Agency data system, STORET. The Environmental Protection Agency assigns and approves all requests for new codes.

Percent composition is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population, in terms of types, numbers, mass, or volume.

Pesticides are chemical compounds used to control undesirable organisms. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides.

Picocurie (PC, pCi) is one trillionth (1×10^{-12}) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7×10^{10} radioactive disintegrations per second. A picocurie yields 2.22 dpm (disintegrations per minute).

Radiochemical program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Recoverable from bottom material is the amount of a given constituent that is in solution after a representative sample of bottom material has been digested by a method (usually using an acid or mixture of acids) that results in dissolution of readily soluble substances. Complete dissolution of all bottom material is not achieved by the digestion treatment and thus the determination represents less than the total amount (that is, less than 95 percent) of the constituent in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Sodium-adsorption-ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions within soil and is an index of sodium or alkali hazard to the soil. Waters range in respect to sodium hazard from those which can be used for irrigation on almost all soils to those which are generally unsatisfactory for irrigation.

Solute is any substance that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in microsiemens per centimeter at 25°C. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in microsiemens). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

Substrate is the physical surface upon which an organism lives.

Natural substrate refers to any naturally occurring emersed or submersed solid surface, such as a rock or tree, upon which an organism lives.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchial scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, *Hexagenia limbata*, is the following:

Kingdom	Animal
Phylum	Arthropoda
Class	Insecta
Order	Ephemeroptera
Family	Ephemeridae
Genus	*Hexagenia*
Species	*Hexagenia limbata*

Thermograph is an instrument that continuously records variations of temperature on a chart. The more general term "temperature recorder" is used in the table headings and refers to any instrument that records temperature whether on a chart, a tape, or any other medium.

Water year in Geological Survey reports dealing with surface-water supply is the 12-month period October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 1989, is called the "1989 water year."

WDR is used as an abbreviation for "Water-Data Report" in the REVISED RECORDS paragraph to refer to State annual hydrologic-data reports (WRD was used as an abbreviation for "Water-Resources Data" in reports published prior to 1976).

WSP is used as an abbreviaton for "Water-Supply Paper" in reference to previously published reports.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

The U.S. Geological Survey publishes a series of manuals describing procedures for planning and conducting specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) pertains to surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises.

The reports listed below are for sale by the U.S. Geological Survey, Books and Open-File Reports Section, Federal Center, Box 25425, Denver, Colorado 80225 (authorized agent of the Superintendent of Documents, Government Printing Office). Prepayment is required. Remittance should be sent by check or money order payable to the U.S. Geological Survey. Prices are not included because they are subject to change. Current prices can be obtained by writing to the above address. When ordering or inquiring about prices for any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations."

1-D1. *Water temperature--influential factors, field measurement, and data presentation*, by H. H. Stevens, Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages.

1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W. W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages.

2-D1. *Application of surface geophysics to ground-water investigations*, by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages.

2-D2. *Application of seismic-refraction techniques to hydrologic studies*, by F. P. Haeni: USGS--TWRI Book 2, Chapter D2. 1988. 86 pages.

2-E1. *Application of borehole geophysics to water-resources investigations*, by W. S. Keys and L. M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages.

2-F1. *Application of drilling, coring, and sampling techniques to test holes and wells*, by Eugene Shuter and Warren E. Teasdale: USGS--TWRI Book 2, Chapter F1. 1989. 97 pages.

3-A1. *General field and office procedures for indirect discharge measurements*, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages.

3-A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages.

3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.

3-A4. *Measurement of peak discharge at width contractions by indirect methods*, by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages.

3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages.

3-A6. *General procedure for gaging streams*, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages.

3-A7. *Stage measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3. Chapter A7. 1968. 28 pages.

3-A8. *Discharge measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages.

3-A9. *Measurement of time of travel in streams by dye tracing*, by F. A. Kilpatrick and J. F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A9. 1989. 27 pages.

3-A10. *Discharge ratings at gaging stations*, by E. J. Kennedy: USGS--TWRI Book 3, Chapter A10. 1984. 59 pages.

3-A11. *Measurement of discharge by moving-boat method*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages.

3-A12. *Fluorometric procedures for dye tracing*, by J. F. Wilson, Jr., E. D. Cobb, and F. A. Kilpatrick: USGS--TWRI Book 3, Chapter A12. 1986. 41 pages.

3-A13. *Computation of continuous records of streamflow*, by E. J. Kennedy: USGS--TWRI Book 3, Chapter A13. 1983. 53 pages.

3-A14. *Use of flumes in measuring discharge*, by F. A. Kilpatrick and V. R. Schneider: USGS--TWRI Book 3, Chapter A14. 1983. 46 pages.

3-A15. *Computation of water-surface profiles in open channels*, by Jacob Davidian: USGS--TWRI Book 3, Chapter A15. 1984. 48 pages.

3-A16. *Measurement of discharge using tracers*, by F. A. Kilpatrick and E. D. Cobb: USGS--TWRI Book 3, Chapter A16. 1985. 52 pages.

3-A17. *Acoustic velocity meter systems*, by Antonius Laenen: USGS--TWRI Book 3, Chapter A17. 1985. 38 pages.

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WELL DESCRIPTIONS AND GROUND-WATER DATA

KEY TO SITE LOCATIONS ON FIGURE 16

CHARLOTTE COUNTY

INDEX NUMBER	SITE NUMBER	PAGE NUMBER
1	265138082002201	28
2	265638082130702	28
3	265646081554501	29
3	265646081554502	29
4	265837081561101	30
5	265920082045601	30
6	270133082034601	31
6	270133082034602	31
7	270152082002801	32
7	270152082002802	32
7	270152082002803	33
7	270152082002804	33

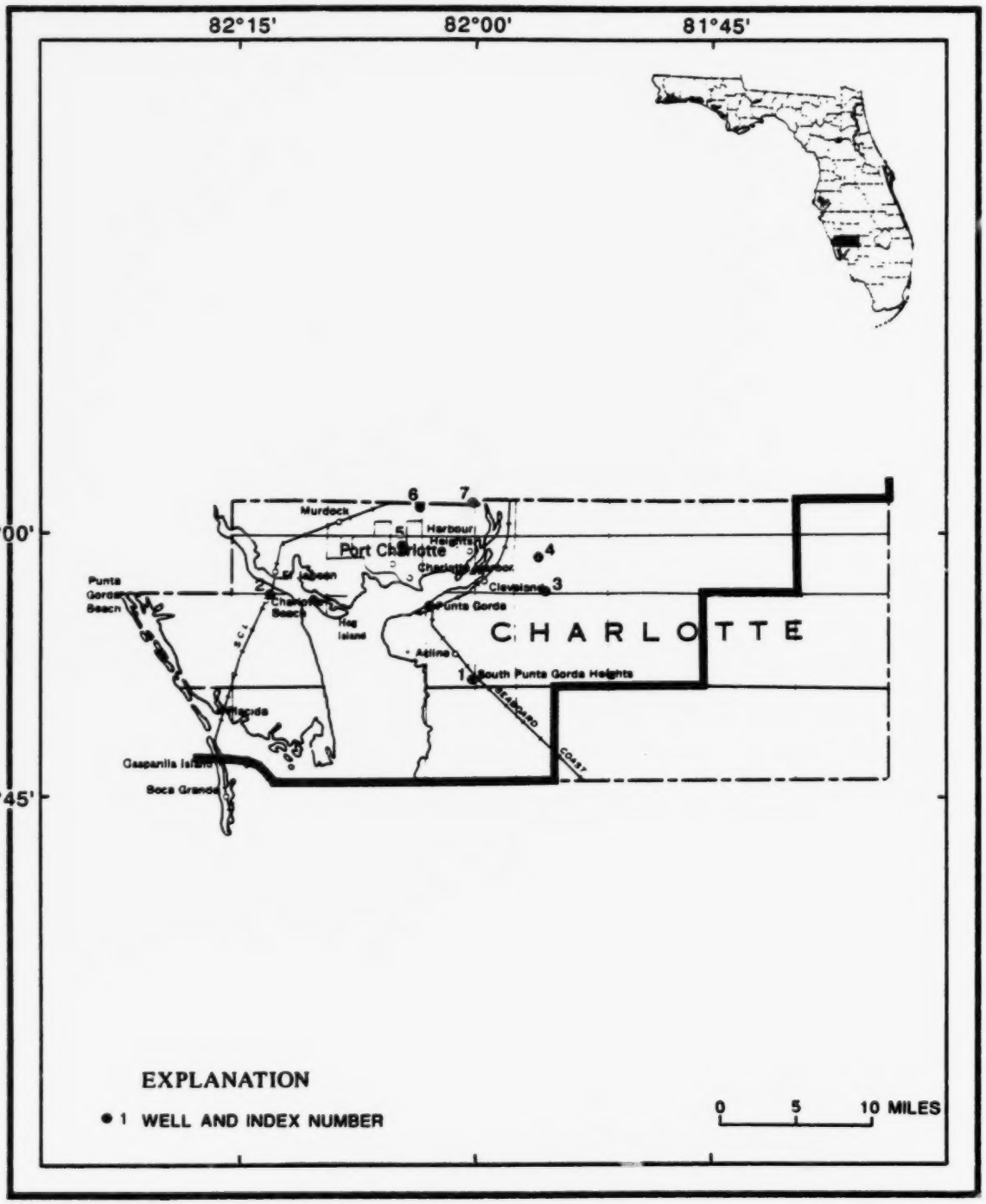

Figure 16.--Location of wells in Charlotte County.

CHARLOTTE COUNTY

WELL NUMBER.--265138082002201. Punta Gorda Heights Well near Punta Gorda, FL.

LOCATION.--Lat 26°51'38", long 82°00'22", in SW¼SW¼ sec.34, T.41 S., R.23 E., Hydrologic Unit 03100103, 1.5 mi west of U. S. Highway 41, and 4.0 mi southeast of Punta Gorda. Owner: U. S. Geological Survey.

AQUIFER.--Hawthorn formation of Miocene Age, Geologic Unit 122 HTRN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 125 ft, cased to 84 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 21.41 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 1.63 ft above land-surface datum. Prior to Mar. 1, 1976, top of recorder shelter floor, 1.70 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby well. Extremes may have been exceeded during periods of missing record.

PERIOD OF RECORD.--April 1967 to current year, incomplete. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 14.28 ft NGVD, Oct. 31, 1967; lowest, 8.46 ft below NGVD, Jan. 20, 1971.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	4.10	-1.88	.12	2.46	1.37	3.14	2.66	-.69	-4.42	7.67	10.03	11.01
10	1.27	-2.29	-.55	1.60	-1.14	5.34	4.17	-1.75	-5.01	8.39	9.48	10.33
15	2.55	-2.19	4.44	.39	1.87	3.75	.65	-1.60	-5.34	7.89	9.56	8.87
20	1.70	-2.60	4.71	1.42	-1.16	1.31	-1.01	1.35	.16	7.46	10.04	10.25
25	2.24	3.66	.70	5.06	-.75	.64	-1.11	.33	4.43	8.02	10.12	9.12
EOM	-.79	2.86	1.32	7.18	-1.60	3.25	-.73	-3.01	6.55	9.49	10.74	10.39
MAX	4.12	4.06	6.23	7.18	7.31	6.43	4.67	2.62	6.55	9.49	10.74	11.05

CAL YR 1988 MAX 10.94
WTR YR 1989 MAX 11.05

WELL NUMBER.--265638082130702. ROMP TR 3-1 Tamiami Well near El Jobean, FL.

LOCATION.--Lat 26°56'38", long 82°13'07", in NE¼NW¼ sec.4, T.41 S., R.21 E., Hydrologic Unit 0310102, 0.1 mi west of State Highway 771, and 1.5 mi south of El Jobean. Owner: Southwest Florida Water Management District.

AQUIFER.--Tamiami formation of Miocene Age, Geologic Unit 122 TMIM.

WELL CHARACTERISTICS.--Drilled, observation, nonartesian well, diameter 8 in., depth 75 ft, cased to 55 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Altitude of land-surface datum is 7 ft, from topographic map. Measuring point: Top of recorder shelter floor, 11.50 ft above land-surface datum.

PERIOD OF RECORD.--October 1988 to September 1989.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 3.68 ft NGVD, Sept. 12, 13, 14, 15, 1989; lowest, 0.41 ft NGVD, June 18, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	3.38	2.48	2.34	2.09	2.13	1.81	1.95	1.30	.77	2.29	3.03	3.46
10	3.35	2.69	2.32	2.05	2.07	1.98	1.78	1.13	.63	2.31	3.02	3.58
15	3.07	2.65	2.34	1.88	1.99	1.96	1.73	.94	.43	2.27	3.34	3.68
20	2.89	2.43	2.32	1.70	1.82	2.08	1.56	.90	.45	2.23	3.42	3.51
25	2.69	2.46	2.31	2.07	1.78	2.13	1.52	.83	1.12	2.17	3.42	3.42
EOM	2.46	2.42	2.25	2.13	1.78	2.08	1.37	.78	1.79	2.69	3.47	3.68
MAX	3.38	2.69	2.41	2.24	2.14	2.13	2.08	1.35	1.79	2.69	3.47	3.68

WTR YR 1989 MAX 3.68

CHARLOTTE COUNTY

WELL NUMBER.--265646081554501. State Highway 74 Deep Well near Punta Gorda, FL.

LOCATION.--Lat 26°56'46", long 81°55'45", in NW¼NE¼ sec.5, T.41 S., R.24 E., Hydrologic Unit 03100101, on south side of State Highway 74, 5.4 mi east of junction U. S. Highway 17 and State Highway 74, and 7.6 mi east of Punta Gorda. Owner: U.S. Geological Survey.

AQUIFER.--Hawthorn formation of Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 280 ft, cased to 194 ft.

INSTRUMENTATION.--Bimonthly measurement with pressure gage or steel tape.

DATUM.--Altitude of land-surface datum is 19 ft, from topographic map. Measuring point: Top of 3/8 in. valve coupling, 3.22 ft above land-surface datum. Prior to Oct. 1, 1983, top of coupling, 2.8 ft above land-surface datum.

PERIOD OF RECORD.--November 1968 to current year (bimonthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 29.00 ft NGVD, Jan. 10, 1969; lowest measured, 19.76 ft NGVD, June 28, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
04...	0840	22.61	18...	1410	19.80
DEC			JUN		
20...	1355	21.15	28...	0815	19.76
FEB			AUG		
14...	0725	20.76	22...	1255	21.77
APR			SEP		
03...	1440	21.29	15...	1750	22.64

WELL NUMBER.--265646081554502. State Highway 74 Shallow Well near Punta Gorda, FL.

LOCATION.--Lat 26°56'46", long 81°55'45", in NW¼NE¼ sec.5, T.41 S., R.24 E., Hydrologic Unit 03100101, on south side of State Highway 74, 5.4 mi east of junction U. S. Highway 17 and State Highway 74, and 7.6 mi east of Punta Gorda. Owner: U. S. Geological Survey.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 111 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 25 ft, cased to 21 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Altitude of land-surface datum is 19 ft, from topographic map. Prior to Oct. 1, 1976, land-surface datum was considered to be 23 ft, from topographic map. See PERIOD OF RECORD. Measuring point: Top of male adapter, 2.3 ft above land-surface datum.

PERIOD OF RECORD.--July 1969 to current year (bimonthly), incomplete. Records of water levels prior to January 1974 are available in files of the Geological Survey. The figures of water level as elevation in feet, NGVD prior to Oct. 1, 1976, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of -4.00 ft. Revised records are in files of the Geological Survey. See DATUM.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.40 ft NGVD, Sept. 17, 1979; lowest measured, 11.10 ft NGVD, Apr. 27, 1971.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			APR		
04...	0830	15.82	03...	1450	14.01
DEC			JUN		
20...	1350	14.41	28...	0820	13.04
FEB			AUG		
14...	0730	13.11	22...	1250	16.48

CHARLOTTE COUNTY

WELL NUMBER.--265837081561101. ROMP 11 Deep Well near Punta Gorda, FL.

LOCATION.--Lat 26°58'37", long 81°56'11", in SE¼SW¼ sec.20, T.40 S., R.24 E., Hydrologic Unit 03100101, 370 ft north of State Highway 764, and 8.0 mi east of Punta Gorda. Owner: Southwest Florida Water Management District.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 335 ft, cased to 220 ft.

INSTRUMENTATION.--Monthly measurement with pressure gage.

DATUM.--Land-surface datum is 13.30 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of tee, 4.23 ft above land-surface datum. Prior to June 2, 1988, top of casing, 0.50 ft above land-surface datum.

PERIOD OF RECORD.--January 1976 to current year (monthly), incomplete. Records of water levels prior to October 1976 are available in files of the Geological Survey. The figures of water level as elevation in feet, NGVD from May 1983 to September 1984, are in error. Correct elevations for data published for this period may be obtained by using datum correction of +0.89 ft. Revised records are in files of the Geological Survey. Prior to October 1979, published as Shell Creek Benchmark Well near Punta Gorda.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 43.14 ft NGVD, Sept. 6, 1978; lowest measured, 20.08 ft NGVD, Jan. 19, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
04...	0815	28.62	03...	1155	22.13
NOV			18...	1430	21.13
10...	1100	29.31	JUN		
DEC			29...	0805	23.33
20...	0850	24.92	AUG		
JAN			22...	1312	23.33
19...	1415	20.08	SEP		
FEB			15...	1717	24.53
14...	0740	27.23			
APR					
03...	1430	23.31			

WELL NUMBER.--265920082045601. Port Charlotte Utility Deep Well at Port Charlotte, FL.

LOCATION.--Lat 26°59'20", long 82°04'56", in SE¼SW¼ sec.14, T.40 S., R.22 E., Hydrologic Unit 03100101, between 709 and 727 Sistina Street at Port Charlotte Golf Course, and 1.0 mi north of U. S. Highway 41 in Port Charlotte. Owner: General Development Corporation.

AQUIFER.--Hawthorn formation of Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 156 ft, cased to 128 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Altitude of land-surface datum is 14 ft, from topographic map. Measuring point: Top of concrete slab, at land-surface datum.

REMARKS.--Water levels affected by pumping of nearby irrigation wells.

PERIOD OF RECORD.--January 1967 to current year (bimonthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.40 ft NGVD, July 9, 1968; lowest measured, 25.79 ft below NGVD, Nov. 7, 1972.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
03...	1440	11.21	19...	0900	6.32
DEC			AUG		
19...	1450	10.03	22...	1115	11.33
FEB			SEP		
13...	1110	9.30	15...	1440	11.45
APR					
05...	0900	8.32			

CHARLOTTE COUNTY

WELL NUMBER.--270133082034601. Port Charlotte Deep Well at Port Charlotte, FL.

LOCATION.--Lat 27°01'33", long 82°03'46", in SW¼NE¼ sec.1, T.40 S., R.22 E., Hydrologic Unit 03100101, 200 ft north of intersection Hammond and Zenith Streets, and 4.5 mi northeast of junction U. S. Highway 41 and Kessler Street in Port Charlotte. Owner: U. S. Geological Survey.

AQUIFER.--Hawthorn formation of Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 10 in., depth 350 ft, cased to 312 ft.

INSTRUMENTATION.--Bimonthly measurement with pressure gage.

DATUM.--Altitude of land-surface datum is 25 ft, from topographic map. Measuring point: Top of coupling, 4.0 ft above land-surface datum.

PERIOD OF RECORD.--February 1966 to current year (bimonthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 51.20 ft NGVD, Jan. 27, 1967; lowest measured, 43.09 ft NGVD, Feb. 4, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
DEC			MAY		
19...	1435	47.02	19...	0925	43.50
FEB			JUN		
13...	1105	46.32	28...	1325	45.20
APR			SEP		
05...	0920	45.40	15...	1455	46.90

WELL NUMBER.--270133082034602. Port Charlotte Shallow Well at Port Charlotte, FL.

LOCATION.--Lat 27°01'33", long 82°03'46", in SW¼NE¼ sec.1, T.40 S., R.22 E., Hydrologic Unit 03100101, 200 ft north of intersection Hammond and Zenith Streets, and 4.5 mi northeast of junction U. S. Highway 41 and Kessler Street in Port Charlotte. Owner: U. S. Geological Survey.

AQUIFER.--Nonartesian sand aquifer of the Tertiary System, Geologic Unit 120 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 89 ft, cased to 84 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Altitude of land-surface datum is 25 ft, from topographic map. Measuring point: Top of coupling, 3.0 ft above land-surface datum.

PERIOD OF RECORD.--February 1966 to current year (bimonthly), incomplete. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.53 ft NGVD, Nov. 6, 1967; lowest measured, 16.85 ft NGVD, May 20, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			APR		
03...	1420	21.58	05...	0915	18.86
DEC			JUN		
19...	1430	20.12	28...	1330	18.53
FEB			AUG		
13...	1100	19.78	22...	1040	21.82

CHARLOTTE COUNTY

WELL NUMBER.--270152082002801. ROMP 10 Oligocene Well near Port Charlotte, FL.

LOCATION.--Lat 27°01'52", long 82°00'28", in NW¼NW¼ sec.3, T.40 S., R.23 E., Hydrologic Unit 03100101, 200 ft south of De Soto-Charlotte County line, 1.0 mi east of Peace River, 2.0 mi north of Harbour Heights, and 5.0 mi northeast of Port Charlotte. Owner: Southwest Florida Water Management District.

AQUIFER.--Limestone aquifer of Oligocene Age, Geologic Unit 123 LMSN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 8 to 4 in., depth 917 ft, cased to 595 ft.

INSTRUMENTATION.--Monthly measurement with pressure gage.

DATUM.--Altitude of land-surface datum is 20 ft, from topographic map. Measuring point: Top of valve, 3.3 ft above land-surface datum.

REMARKS.--Well also sampled for water quality.

PERIOD OF RECORD.--December 1975 to September 1977 (bimonthly); October 1977 to current year (monthly), incomplete. Prior to October 1979, published as Deep Creek Well Number 917 near Port Charlotte.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 62.11 ft NGVD, Sept. 6, 28, 1978; lowest measured, 51.48 ft NGVD, Sept. 13, 1982.

ELEVATION IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
03...	1355	59.34	03...	1050	56.10
NOV			19...	1010	54.80
10...	1030	58.41	JUN		
DEC			28...	1305	55.90
19...	1315	57.95	AUG		
FEB			22...	0955	56.10
13...	1030	58.18	SEP		
APR			15...	1545	59.00
05...	1000	57.26			

WELL NUMBER.--270152082002802. ROMP 10 Limestone Well near Port Charlotte, FL.

LOCATION.--Lat 27°01'52", long 82°00'28", in NW¼NW¼ sec.3, T.40 S., R.23 E., Hydrologic Unit 03100101, 200 ft south of De Soto-Charlotte County line, 1.0 mi east of Peace River, 2.0 mi north of Harbour Heights, and 5.0 mi northeast of Port Charlotte. Owner: Southwest Florida Water Management District.

AQUIFER.--Limestone aquifer of Miocene Age, Geologic Unit 122 LMSN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 8 to 4 in., depth 575 ft, cased to 303 ft.

INSTRUMENTATION.--Monthly measurement with pressure gage.

DATUM.--Altitude of land-surface datum is 20 ft, from topographic map. Measuring point: Top of valve, 2.0 ft above land-surface datum.

REMARKS.--Well also sampled for water quality.

PERIOD OF RECORD.--December 1975 to September 1977 (bimonthly); October 1977 to current year (monthly), incomplete. Prior to October 1979, published as Deep Creek Well Number 575 near Port Charlotte.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 63.35 ft NGVD, Sept. 6, Oct. 3, 1978; lowest measured, 56.19 ft NGVD, May 18, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
03...	1350	61.04	03...	1045	57.61
NOV			19...	1005	56.80
10...	1025	59.65	JUN		
DEC			28...	1300	58.20
19...	1310	59.65	AUG		
FEB			22...	1000	57.20
13...	1025	59.19	SEP		
APR			15...	1550	60.70
05...	0955	58.50			

CHARLOTTE COUNTY

WELL NUMBER.--270152082002803. ROMP 10 Hawthorn Well near Port Charlotte, FL.

LOCATION.--Lat 27°01'52", long 82°00'28", in NW¼NW¼ sec.3, T.40 S., R.23 E., Hydrologic Unit 03100101, 200 ft south of De Soto-Charlotte County line, 1.0 mi east of Peace River, 2.0 mi north of Harbour Heights, and 5.0 mi northeast of Port Charlotte. Owner: Southwest Florida Water Management District.

AQUIFER.--Hawthorn limestone aquifer of Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 270 ft, cased to 110 ft.

INSTRUMENTATION.--Monthly measurement with pressure gage.

DATUM.--Altitude of land-surface datum is 20 ft, from topographic map. Measuring point: Top of valve, 1.5 ft above land-surface datum.

REMARKS.--Well also sampled for water quality.

PERIOD OF RECORD.--December 1975 to September 1977 (bimonthly); October 1977 to September 1986 (monthly); October 1987 to current year (monthly), incomplete. Prior to October 1979, published as Deep Creek Well Number 270 near Port Charlotte.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 40.21 ft NGVD, Sept. 6, 1978; lowest measured, 22.86 ft NGVD, July 14, 1988.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
03...	1345	27.51	03...	1035	24.42
NOV			19...	1000	24.12
10...	1015	23.73	JUN		
DEC			28...	1255	25.90
19...	1300	23.01	AUG		
FEB			22...	1005	25.50
13...	1020	24.49	SEP		
APR			15...	1540	28.50
05...	0945	24.28			

WELL NUMBER.--270152082002804. ROMP 10 Water Table Well near Port Charlotte, FL.

LOCATION.--Lat 27°01'52", long 82°00'28", in NW¼NW¼ sec.3, T.40 S., R.23 E., Hydrologic Unit 03100101, 200 ft south of De Soto-Charlotte County line, 1.0 mi east of Peace River, 2.0 mi north of Harbour Heights, and 5.0 mi northeast of Port Charlotte. Owner: Southwest Florida Water Management District.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 30 ft, cased to 20 ft.

INSTRUMENTATION.--Monthly measurement with steel tape.

DATUM.--Altitude of land-surface datum is 20 ft, from topographic map. Measuring point: Top of coupling, 2.20 ft above land-surface datum. Prior to Aug. 29, 1988, top of coupling, 0.6 ft above land-surface datum.

PERIOD OF RECORD.--December 1975 to September 1977 (bimonthly); October 1977 to current year (monthly), incomplete. Prior to October 1979, published as Deep Creek Water Table Well near Port Charlotte.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 18.34 ft NGVD, Aug. 22, 1989; lowest measured, 14.25 ft NGVD, May 10, 1976.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			APR		
03...	1340	17.41	05...	0940	15.75
NOV			MAY		
10...	1000	17.03	03...	1025	15.92
DEC			JUN		
19...	1250	16.51	28...	1250	18.12
FEB			AUG		
13...	1006	16.17	22...	1009	18.34

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1988 TO SEPTEMBER 1989

STATION NUMBER	STATION NAME	LAT-I-TUDE	LONG-I-TUDE	DATE	ELEV-ATION ABOVE NGVD (FEET)
	CHARLOTTE COUNTY				
265004081581901	42S23E12 HERRIN NVR 1	26 50 04 N	081 58 19 W	09-14-89	27.78
265124081453701	TUCKERS CORNER D. WELL NR PUNTA GORDA, FL	26 51 24 N	081 45 37 W	05-18-89	25.84
				09-16-89	31.41
265124082012401	OLD FAITHFUL D. WELL NR PUNTA GORDA, FLA	26 51 24 N	082 01 24 W	05-18-89	42.70
				09-16-89	44.90
265127081532501	42S24E02 USGS C1 121	26 51 27 N	081 53 25 W	05-18-89	43.40
265257081444101	BABCOCK 5 NR PUNTA GORDA, FL	26 52 57 N	081 44 41 W	09-16-89	37.70
265313081442601	BABCOCK 1326 NR PUNTA GORDA, FL	26 53 13 N	081 44 26 W	05-18-89	32.60
				09-16-89	34.48
265321081442601	BABCOCK 2126 WELL NR PUNTA GORDA, FL	26 53 21 N	081 44 26 W	05-18-89	34.47
265504082000601	41S23E10 USGS C3 343	26 55 04 N	082 00 06 W	05-18-89	8.80
				09-15-89	12.27
265633082015201	BROWNS D WELL AT PUNTA GORDA	26 56 33 N	082 01 52 W	05-18-89	41.00
				09-15-89	43.50
265638082130703	ROMP TR3-1 UPPER HAWTHORN MONITOR NR EL JOBEAN,F	26 56 38 N	082 13 07 W	05-17-89	13.61
				09-16-89	15.49
265638082130704	ROMP TR3-1 LOWER HAWTHORN MONITOR NR EL JOBEAN,F	26 56 38 N	082 13 07 W	05-19-89	27.24
				09-16-89	29.70
265638082130705	ROMP TR3-1 LOWER HAWTHORN MON.NR EL JOBEAN,FL	26 56 38 N	082 13 07 W	05-19-89	28.03
				09-16-89	30.62
265638082130706	ROMP TR3-1 SUWANNEE MONITOR NR EL JOBEAN,FL	26 56 38 N	082 13 07 W	05-19-89	29.78
				09-16-89	32.40
265656081414701	TROPICAL RIVERS GROVE 1 WELL NR PUNTA GORDA, FL	26 56 56 N	081 41 47 W	05-18-89	44.57
				09-16-89	48.34
265842081414801	40S26E22 658141132 424	26 58 42 N	081 41 48 W	05-18-89	44.64
				09-16-89	48.50

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
CHARLOTTE COUNTY							
270152082002801 ROMP 10 FLRD WELL NR PORT CHARLOTTE, FL (LAT 27 01 52N LONG 082 00 28W)							
MAY 1989 03...	1050	1360	24.5	5	91	62	110
270152082002802 ROMP 10 L. HTRNN WELL NR PORT CHARLOTTE, FL (LAT 27 01 52N LONG 082 00 28W)							
MAY 1989 03...	1045	1800	25.0	<5	45	56	200
270152082002803 ROMP 10 U. HTRNN WELL NR PORT CHAROLTTE, FL (LAT 27 01 52N LONG 082 00 28W)							
MAY 1989 03...	1035	1610	25.0	<5	72	52	150

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)
270152082002801 ROMP 10 FLRD WELL NR PORT CHARLOTTE, FL (LAT 27 01 52N LONG 082 00 28W)							
MAY 1989 03...	7.4	370	190	1.8	15	992	18000
270152082002802 ROMP 10 L. HTRNN WELL NR PORT CHARLOTTE, FL (LAT 27 01 52N LONG 082 00 28W)							
MAY 1989 03...	8.1	220	360	1.2	9.4	1030	19000
270152082002803 ROMP 10 U. HTRNN WELL NR PORT CHAROLTTE, FL (LAT 27 01 52N LONG 082 00 28W)							
MAY 1989 03...	8.6	170	340	1.3	21	973	19000

KEY TO SITE LOCATIONS ON FIGURE 17

CITRUS COUNTY

INDEX NUMBER	SITE NUMBER	PAGE NUMBER
1	284317082330601	38
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5	285020082365301	41
6	285102082361001	41
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8	285234082341901	43
9	285254082323001	43
10	285421082361601	44
10	285421082361602	44
11	285737082400601	45
12	285737082413001	45

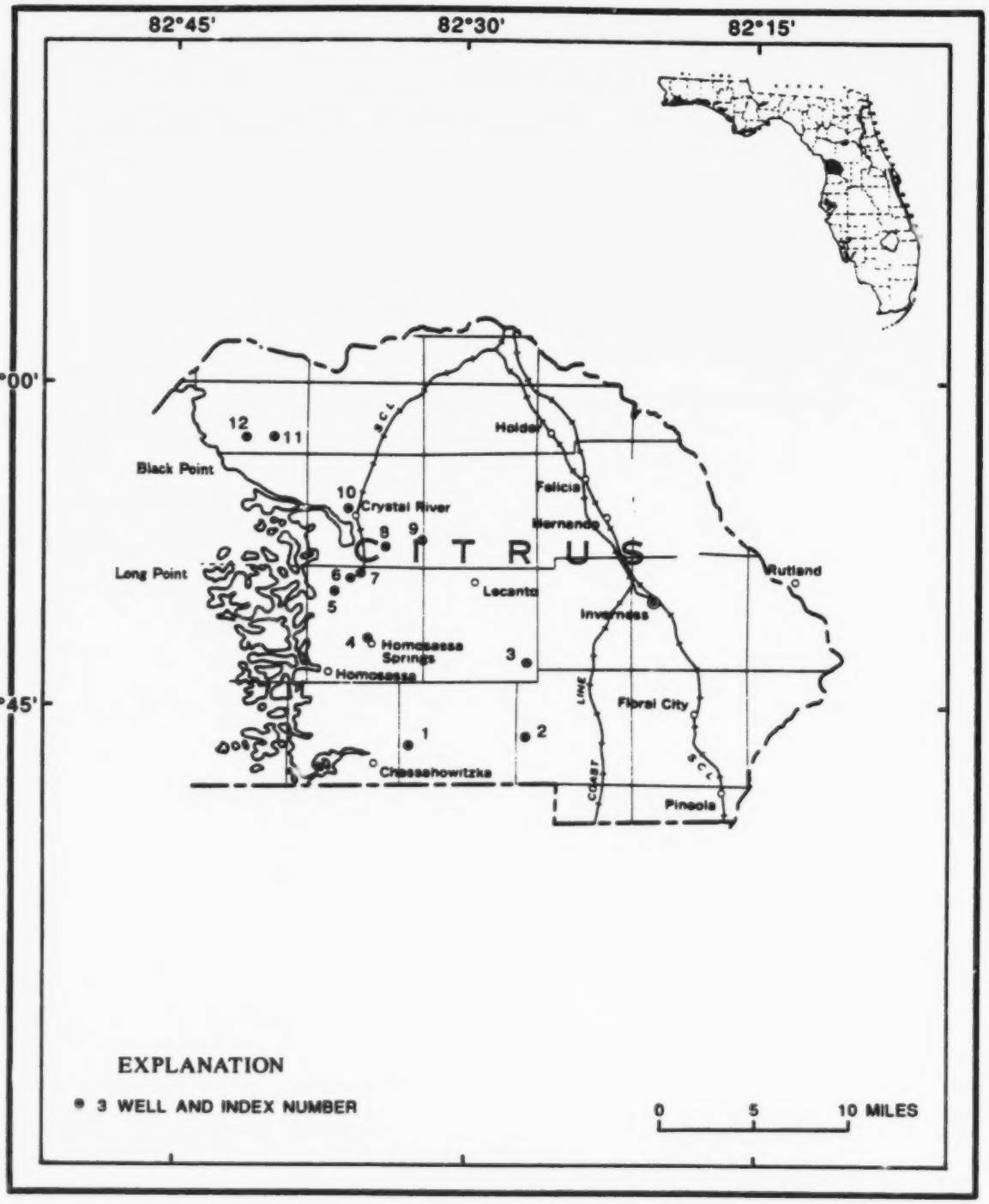

Figure 17.--Location of wells in Citrus County.

CITRUS COUNTY

WELL NUMBER.--284317082330601. Chassahowitzka Well 1 near Chassahowitzka, FL.

LOCATION.--Lat 28°43'17", long 82°33'06", in NE¼NE¼ sec.25, T.20 S., R.17 E., Hydrologic Unit 03100207, 0.1 mi southeast of intersection U. S. Highway 19 and U. S. Highway 98, and 1.2 mi east of Chassahowitzka. Owner: U.S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 176 ft, cased to 166 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM (corrected).--Land-surface datum is 9.82 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of flange, 2.65 ft above land-surface datum. Prior to Dec. 5, 1975, top of casing, 2.67 ft above land-surface datum; Dec. 5, 1975, to May 4, 1988, top of recorder shelter floor, 2.67 ft above land-surface datum.

REMARKS.--Extremes may have been exceeded during periods of missing record. Some records were provided by Southwest Florida Water Management District and reviewed by Geological Survey. Well also sampled for water quality.

PERIOD OF RECORD.--October 1965 to March 1971; January 1973 to current year, incomplete. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 9.67 ft NGVD, Oct. 14, 1982; lowest, 5.28 ft NGVD, June 12, 1985.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.16	8.59	7.82	7.32	e6.90	6.75	6.27	5.99	5.64	6.45	6.13	6.36
10	8.92	8.28	7.80	7.27	6.83	6.63	6.22	6.10	5.96	6.33	6.16	6.31
15	8.76	8.13	7.67	7.14	6.73	6.55	6.24	5.90	5.82	6.22	6.28	6.27
20	8.70	8.08	7.57	7.03	6.68	6.47	6.15	5.79	5.78	6.28	6.20	6.27
25	8.66	8.20	7.54	7.02	6.67	6.47	6.04	5.79	6.03	6.31	6.19	6.67
EOM	8.42	8.00	7.37	6.99	6.65	6.37	5.95	5.65	6.12	6.24	6.20	6.67
MAX	9.33	8.59	7.95	7.37	6.95	6.75	6.37	6.16	6.12	6.46	6.28	6.73

CAL YR 1988 MAX 9.47
WTR YR 1989 MAX 9.33

e Estimated

WELL NUMBER.--284317082330602. Chassahowitzka Well 2 near Chassahowitzka, FL.

LOCATION.--Lat 28°43'17", long 82°33'06", in NE¼NE¼ sec.25, T.20., R.17 E., Hydrologic Unit 03100207, 0.1 mi southeast of intersection U. S. Highway 19 and U. S. Highway 98, and 1.2 mi east of Chassahowitzka. Owner: U.S. Geological Survey.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 46.5 ft, cased to 40.5 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 9.36 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.00 ft above land-surface datum.

PERIOD OF RECORD.--September 1965 to current year (bimonthly), incomplete. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.30 ft NGVD, Sept. 14, 1982; lowest measured, 5.30 ft NGVD, Jan. 9, 1985.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			APR		
14...	1341	9.17	14...	1609	6.95
DEC			JUN		
14...	1745	8.22	14...	1624	6.59
FEB			AUG		
15...	1706	7.57	09...	1613	6.76

CITRUS COUNTY

WELL NUMBER.--284339082270401. Lecanto Well 1 near Chassahowitzka, FL.

LOCATION.--Lat 28°43'39", long 82°27'04", in SW¼SW¼ sec.19, T.20 S., R.19 E., Hydrologic Unit 03100207, on east side of State Highway 491, 2.2 mi north of Citrus-Hernando County line, and 14 mi east of Chassahowitzka. Owner: U. S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 168.5 ft, cased to 168 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 32.80 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.00 ft above land-surface datum.

PERIOD OF RECORD.--September 1965; May 1966 to current year (bimonthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.82 ft NGVD, Sept. 8, 1965; lowest measured, 6.88 ft NGVD, May 12, 1976.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
14...	1038	12.48	03...	1225	8.05
JAN			17...	1259	7.84
11...	1155	10.08	JUL		
FEB			13...	1250	7.82
28...	1433	9.04	SEP		
			14...	1151	7.91

WELL NUMBER.--284339082270402. Lecanto Well 2 near Chassahowitzka, FL.

LOCATION.--Lat 28°43'39", long 82°27'04", in SW¼SW¼ sec.19, T.20 S., R.19 E., Hydrologic Unit 03100207, on east side of State Highway 491, 2.2 mi north of Citrus-Hernando County line, and 14 mi east of Chassahowitzka. Owner: U. S. Geological Survey.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 41 ft, cased to 36 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 32.64 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.00 ft above land-surface datum.

PERIOD OF RECORD.--September 1965; May 1966 to current year (bimonthly), incomplete. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.92 ft NGVD, Sept. 6, 1974; lowest measured, 6.88 ft NGVD, May 12, 1976.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
14...	1042	12.50	03...	1220	8.08
JAN			JUL		
11...	1200	10.10	13...	1245	7.85
FEB			SEP		
28...	1430	9.05	14...	1147	7.95

CITRUS COUNTY

WELL NUMBER.--284705082270101. Lecanto Well 3 near Lecanto, FL.

LOCATION.--Lat 28°47'05", long 82°27'01", in SW¼NW¼ sec.36, T.19 S., R.18 E., Hydrologic Unit 03100207, on east side of State Highway 491, 5.2 mi south of Lecanto, and 7.3 mi east of Homosassa Springs. Owner: U. S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 63 ft, cased to 59 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 58.42 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.60 ft above land-surface datum.

PERIOD OF RECORD.--September 1965; May 1966 to current year (bimonthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.96 ft NGVD, Sept. 14, 1982; lowest measured, 4.89 ft NGVD, May 17, 1967.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
14...	1055	11.59	03...	1240	7.48
JAN			17...	1310	7.28
11...	1210	9.34	JUL		
FEB			13...	1300	7.31
28...	1445	8.38	SEP		
			14...	1203	7.36

WELL NUMBER.--284803082351701. Norris Well at Homosassa Springs, FL.

LOCATION.--Lat 28°48'03", long 82°35'17", in NW¼NE¼ sec.28, T.19 S., R.17 E., Hydrologic Unit 03100207, at Nature's Fish Bowl (Homosassa Springs), and 0.7 mi west of U. S. Highway 19 at town of Homosassa Springs. Owner: Florida State Department of Natural Resources.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, irrigation, artesian well, diameter 12 in., depth 50 ft, cased to 44 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 5.87 ft (corrected) above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.60 ft (corrected) above land-surface datum.

PERIOD OF RECORD.--October 1963 to September 1977 (monthly), incomplete; October 1977 to current year (bimonthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.37 ft NGVD, Sept. 10, 1964; lowest measured, 0.58 ft NGVD, Nov. 4, 1983.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
19...	1549	1.76	17...	1700	1.53
DEC			JUN		
15...	1428	1.86	14...	1646	1.75
FEB			AUG		
16...	0831	1.61	09...	1634	1.93
APR			SEP		
14...	0841	1.39	13...	1650	1.97

CITRUS COUNTY

WELL NUMBER.--285020082365301. Ozello Well 3 near Crystal River, FL.

LOCATION.--Lat 28°50'20", long 82°36'53", in NW¼SW¼ sec.8, T.19 S., R.17 E., Hydrologic Unit 03100207, 2.5 mi south of Crystal River, and 2.8 mi west of U. S. Highway 19. Owner: U.S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 3 in., depth 41 ft, cased to 39 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 3.60 ft (corrected) above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1988, land-surface datum was considered to be 3.35 ft (corrected) NGVD. See PERIOD OF RECORD. Measuring point: Top of casing, 2.53 ft (corrected) above land-surface datum.

REMARKS.--Well also sampled for water quality.

PERIOD OF RECORD.--September 1965; May 1966 to current year (bimonthly). Records of water levels prior to January 1974 are available in files of the Geological Survey. The figures of water level as elevation in feet, NGVD prior to Oct. 1, 1988, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of +0.25 ft. Revised records are in files of the Geological Survey. See DATUM.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.80 ft (corrected) NGVD, July 11, 1984; lowest measured, 0.68 ft (corrected) NGVD, May 6, 1976.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
19...	1513	1.84	17...	1640	1.15
DEC			JUN		
15...	1349	1.70	15...	0930	1.49
FEB			AUG		
16...	1452	1.16	10...	0937	1.60
APR			SEP		
14...	1509	0.90	13...	1617	1.86

WELL NUMBER.--285102082361001. Ozello Well 4 near Crystal River, FL.

LOCATION.--Lat 28°51'02", long 82°36'10", in SE¼SE¼ sec.5, T.19 S., R.17 E., Hydrologic Unit 03100207, 1.5 mi west of U. S. Highway 19, and 2.5 mi south of Crystal River. Owner: U.S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 3 in., depth 75 ft, cased to 60 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 5.09 ft (corrected) above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.30 ft (corrected) above land-surface datum.

REMARKS.--Well also sampled for water quality.

PERIOD OF RECORD.--December 1965; May 1966 to current year (bimonthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.52 ft NGVD, Sept. 6, 1974; lowest measured, 0.03 ft NGVD, July 10, 1986.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
19...	1450	2.88	17...	1633	1.88
DEC			JUN		
15...	1328	2.43	15...	0900	1.99
FEB			AUG		
16...	1423	1.92	10...	0915	2.34
APR			SEP		
14...	1451	1.62	13...	1601	2.53

CITRUS COUNTY

WELL NUMBER.--285112082354401. ROMP TR 21-2 Deep Well near Homosassa Springs, FL.

LOCATION.--Lat 28°51'12", long 82°35'44", in NE¼SW¼ sec.4, T.19 S., R.17 E., Hydrologic Unit 03100207, 1.0 mi west of U. S. Highway 19, and 3.5 mi northwest of Homosassa Springs. Owner: Southwest Florida Water Management District.

AQUIFER.--Avon Park formation of Eocene Age, Geologic Unit 124 AVPK.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 111 ft, cased to 105 ft.

INSTRUMENTATION.--Monthly measurement with steel tape.

DATUM.--Land-surface datum is 3.42 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 4.46 ft above land-surface datum.

REMARKS.--Well also sampled for water quality.

PERIOD OF RECORD.--May 1979 to September 1983; October 1983 to current year (monthly), incomplete.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.56 ft NGVD, Nov. 10, 1987; lowest measured, 0.38 ft NGVD, May 13, 1986.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
19...	1440	2.30	17...	1628	1.28
NOV			JUN		
10...	1405	2.06	15...	0827	1.21
DEC			JUL		
15...	1319	1.66	13...	1149	1.77
JAN			AUG		
19...	1548	1.43	10...	0854	1.67
FEB			SEP		
16...	1408	1.25	13...	1521	1.88
APR					
14...	1440	0.99			

CITRUS COUNTY

WELL NUMBER.--285234082341901. ROMP TR 21-3 Deep Well near Crystal River, FL.

LOCATION.--Lat 28°52'34", long 82°34'19", in NE¼NE¼ sec.34, T.18 S., R.17 E., Hydrologic Unit 03100207, 0.5 mi east of U. S. Highway 19, and 1.7 mi southeast of Crystal River. Owner: Southwest Florida Water Management District.

AQUIFER.--Avon Park formation of Eocene Age, Geologic Unit 124 AVPK.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 252 ft, cased to 240 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 6.11 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.95 ft above land-surface datum.

REMARKS.--Extremes may have been exceeded during periods of missing record. Well also sampled for water quality.

PERIOD OF RECORD.--May 1979 to current year (incomplete).

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 5.40 ft NGVD, Nov. 1, 1985; lowest, 1.73 ft NGVD, Dec. 20, 1981.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	4.60	3.40	3.16	3.15	3.20	---	3.11	3.02	3.32	2.82	2.94
10	---	3.87	3.70	3.38	2.66	2.49	---	3.34	2.85	2.89	2.76	2.87
15	---	3.67	3.27	3.21	2.83	3.02	2.79	2.56	2.87	3.08	3.15	3.11
20	4.03	3.82	3.29	3.17	2.75	2.82	2.76	2.62	3.06	3.30	2.83	2.75
25	4.23	3.71	3.45	2.83	2.54	2.83	2.74	2.66	3.04	2.88	2.99	3.28
EOM	3.81	3.49	3.30	3.09	3.01	3.11	2.64	2.53	3.29	3.09	3.07	3.18
MAX	---	4.60	3.77	3.53	3.29	3.26	---	3.34	---	3.45	3.15	3.28

WELL NUMBER.--285254082323001. Lecanto Well 7 near Lecanto, FL.

LOCATION.--Lat 28°52'54", long 82°32'30", in NW¼SE¼ sec.36, T.18 S., R.17 E., Hydrologic Unit 03100207, 2.0 mi northwest of Lecanto, and 3.0 mi southeast of junction U. S. Highway 19 and State Highway 44. Owner: U.S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 30 ft, cased to 20 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Altitude of land-surface datum is 8 ft, from topographic map. Measuring point: Top of casing, 2.5 ft above land-surface datum.

PERIOD OF RECORD.--May 1966 to current year (bimonthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.62 ft NGVD, July 9, 1982; lowest measured, 2.43 ft NGVD, May 7, 1968.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
14...	1120	5.61	17...	1331	3.01
DEC			JUN		
15...	1157	4.55	15...	1524	3.25
FEB			AUG		
16...	1351	3.57	10...	1234	3.27
APR			SEP		
14...	1308	3.08	13...	1057	3.19

CITRUS COUNTY

WELL NUMBER.--285421082361601. Crystal River Shallow Well at Crystal River, FL.

LOCATION.--Lat 28°54'21", long 82°36'16", in SE¼SE¼ sec.17, T.18 S., R.17 E., Hydrologic Unit 03100207, 3 ft west of U. S. Highway 19, and 0.2 mi north of Crystal River city limits. Owner: U.S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 53 ft, cased to 3.4 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 8.11 ft (corrected) above National Geodetic Vertical Datum of 1929. Measuring point: Top of coupling, at (corrected) land-surface datum.

REMARKS.--Well also sampled for water quality.

PERIOD OF RECORD.--September 1964 to July 1973, incomplete; February 1975 to current year (bimonthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 6.70 ft (corrected) NGVD, Aug. 1, 1965; lowest measured, 1.56 ft (corrected) below NGVD, Sept. 10, 1987.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			APR		
20...	1059	1.46	14...	1128	0.37
DEC			JUN		
15...	1046	1.12	15...	1305	1.63
JAN			AUG		
20...	1059	0.93	10...	1144	1.54
FEB					
16...	1103	0.78			

WELL NUMBER.--285421082361602. Crystal River Deep Well at Crystal River, FL.

LOCATION.--Lat 28°54'21", long 82°36'16", in SE¼SE¼ sec.17, T.18 S., R.17 E., Hydrologic Unit 03100207, 3 ft west of U. S. Highway 19, and 0.2 mi north of Crystal River city limits. Owner: U.S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 176 ft, cased to 162 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM (corrected).--Land-surface datum is 8.15 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1988, land-surface was considered to be 7.97 ft (corrected) NGVD. See PERIOD OF RECORD. Measuring point: Top of recorder shelter floor, 2.50 ft above land-surface datum. Prior to Oct. 20, 1977, top of coupling, 2.22 ft above land-surface datum; Oct. 20, 1977, to July 10, 1979, top of flange, 2.43 ft above land-surface datum; July 10, 1979, to Sept. 16, 1982, top of male adaptor, 2.37 ft above land-surface datum.

REMARKS.--Land surface changed by highway construction. Well also sampled for water quality.

PERIOD OF RECORD.--July 1964 to September 1977 (monthly), incomplete; October 1977 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey. The figures of water level as elevation in feet, NGVD prior to Oct. 1, 1988, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of +0.18 ft. Revised records are in files of the Geological Survey. See DATUM.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 5.15 ft (corrected) NGVD, Aug. 31, 1985; lowest measured, 0.07 ft (corrected) below NGVD, June 2, 1972.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	1.98	3.44	1.80	2.14	2.32	2.35	2.12	2.75	2.73	2.55	2.07	2.08
10	2.17	2.26	2.49	2.43	1.47	1.29	2.36	3.06	2.03	1.91	1.97	2.04
15	2.09	2.03	1.76	2.17	1.87	2.18	2.08	1.80	2.27	2.38	2.65	2.50
20	2.25	2.45	2.05	2.17	1.80	2.02	2.12	2.07	2.58	2.78	2.09	1.91
25	2.70	1.99	2.31	1.58	1.41	1.95	2.17	2.10	2.13	1.96	2.43	2.59
EOM	2.03	1.78	2.16	2.12	2.25	2.48	2.00	2.02	2.66	2.44	2.48	2.38
MAX	2.82	4.05	2.67	2.68	2.53	2.66	2.93	3.06	2.76	2.78	2.65	2.59

CAL YR 1988 MAX 4.05
WTR YR 1989 MAX 4.05

CITRUS COUNTY

WELL NUMBER.--285737082400601. Florida Power Corporation Well 3 near Crystal River, FL.

LOCATION.--Lat 28°57'37", long 82°40'06", in NW¼NW¼ sec.35, T.17 S., R.16 E., Hydrologic Unit 03100207, 2.5 mi west of U. S. Highway 19, and 4.5 mi northwest of Crystal River. Owner: U.S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 3 in., depth 88 ft, cased to 67 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 7.18 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, at land-surface datum. Prior to Nov. 7, 1985, top of casing, 3.00 ft above land-surface datum.

REMARKS.--Well also sampled for water quality.,

PERIOD OF RECORD.--May 1966 to current year (bimonthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.73 ft NGVD, Mar. 14, 1978; lowest measured, 1.18 ft NGVD, Sept. 10, 1987.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
20...	0945	3.75	17...	1509	1.94
DEC			JUN		
15...	0918	3.96	15...	1109	2.84
FEB			AUG		
16...	0933	2.69	10...	1014	3.46
APR			SEP		
14...	0953	2.34	13...	1127	3.02

WELL NUMBER.--285737082413001. Florida Power Corporation Well 2 near Crystal River, FL.

LOCATION.--Lat 28°57'37", long 82°41'30", in NW¼NE¼ sec.33, T.17 S., R.16 E., Hydrologic Unit 03100207, 3.7 mi west of U. S. Highway 19, and 4.5 mi northwest of Crystal River. Owner: U.S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 3 in., depth 47 ft, cased to 42 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 4.66 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.90 ft above land-surface datum.

REMARKS.--Well also sampled for water quality.

PERIOD OF RECORD.--May 1966 to current year (bimonthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.56 ft NGVD, May 15, 1984; lowest measured, 1.23 ft NGVD, May 8, 1968.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
20...	1013	3.66	17...	1522	2.68
DEC			JUN		
15...	0945	3.47	15...	1142	3.46
FEB			AUG		
16...	0956	2.73	10...	1042	3.57
APR			SEP		
14...	1017	2.75	13...	1147	3.74

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1988 TO SEPTEMBER 1989

STATION NUMBER	STATION NAME	LAT-I-TUDE	LONG-I-TUDE	DATE	ELEV-ATION ABOVE NGVD (FEET)
	CITRUS COUNTY				
284532082371001	HOMOSASSA WELL 1	28 45 32 N	082 37 10 W	05-16-89	5.95
				09-12-89	1.16
284551082345301	HOMOSASSA WELL 3	28 45 51 N	082 34 53 W	05-16-89	5.48
				09-11-89	3.95

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

CITRUS COUNTY

DATE	TIME	SPECIFIC CONDUCTANCE (US/CM)	TEMPERATURE WATER (DEG C)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)
284317082330601 CHASS.WELL 1 (LAT 28 43 17N LONG 082 33 06W)					
JUL 1989					
13...	1012	265	23.5	--	8.7
SEP					
12...	1619	290	23.5	--	7.7
285020082365301 OZELLO WELL 3 (LAT 28 50 20N LONG 082 36 53W)					
OCT 1988					
19...	1513	9800	22.0	--	3000
DEC					
15...	1349	9800	21.5	--	3000
FEB 1989					
16...	1452	9600	22.0	--	3000
APR					
14...	1509	9800	22.0	--	3000
JUN					
15...	0930	9600	22.0	410	3000
AUG					
10...	0937	9800	22.0	--	3000
285102082361001 OZELLO WELL 4 (LAT 28 51 02N LONG 082 36 10W)					
OCT 1988					
19...	1450	1520	22.0	--	300
DEC					
15...	1328	1380	22.0	--	290
FEB 1989					
16...	1423	1490	22.0	--	300
APR					
14...	1451	1730	22.0	--	380
JUN					
15...	0900	1720	22.0	25	380
AUG					
10...	0915	1720	22.0	--	390
285112082354401 ROMP TR 21-2 DEEP WELL NR HOMOSASSA SPRINGS, FL (LAT 28 51 12N LONG 082 35 44W)					
JUN 1989					
15...	0827	1110	23.0	30	240
SEP					
13...	1521	1110	23.5	29	240
285234082341901 ROMP TR 21-3 DEEP WELL NEAR CRYSTAL RIVER, FL (LAT 28 52 34N LONG 082 34 19W)					
JUN 1989					
15...	1017	1050	26.0	7.9	120
SEP					
13...	1437	1300	25.5	8.8	120
285421082361601 CRYS RIVER SH WELL (LAT 28 54 21N LONG 082 36 16W)					
OCT 1988					
20...	1059	678	21.5	--	66
DEC					
15...	1046	660	22.0	--	57
JAN 1989					
20...	1059	--	--	--	--
FEB					
16...	1103	690	21.5	--	63
APR					
14...	1128	693	21.5	--	66
JUN					
15...	1305	820	21.0	25	110
AUG					
10...	1144	768	21.5	--	90

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	SPECIFIC CONDUCTANCE (US/CM)	TEMPERATURE WATER (DEG C)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)
CITRUS COUNTY					
285421082361602 CRYS RIVER DP WELL (LAT 28 54 21N LONG 082 36 16W)					
OCT 1988					
20...	1053	4660	22.0	--	1300
DEC					
15...	1035	4840	22.0	--	1400
FEB 1989					
16...	1048	8450	22.0	--	2500
APR					
14...	1115	9250	22.0	--	2800
JUN					
15...	1247	10100	22.0	440	3100
AUG					
10...	1134	8600	22.0	--	2600
285737082400601 FPC WELL 3 (LAT 28 57 37N LONG 082 40 06W)					
OCT 1988					
20...	0945	458	21.5	--	14
DEC					
15...	0918	458	21.0	--	14
FEB 1989					
16...	0933	455	21.5	--	15
APR					
14...	0953	462	22.0	--	17
JUN					
15...	1109	469	22.0	2.5	15
AUG					
10...	1014	460	22.0	--	15

KEY TO SITE LOCATIONS ON FIGURE 18

DE SOTO COUNTY

INDEX NUMBER	SITE NUMBER	PAGE NUMBER
1	270410081565201	51
2	270414081584701	51
3	271115081462701	52
3	271115081462702	52
3	271115081462703	53
4	271232081392201	54
4	271232081392202	54
5	271308081522601	55
5	271310081522701	55
6	271538082002301	56
7	271757081493001	56
7	271757081493002	57
7	271757081493003	57
8	272012081482501	58

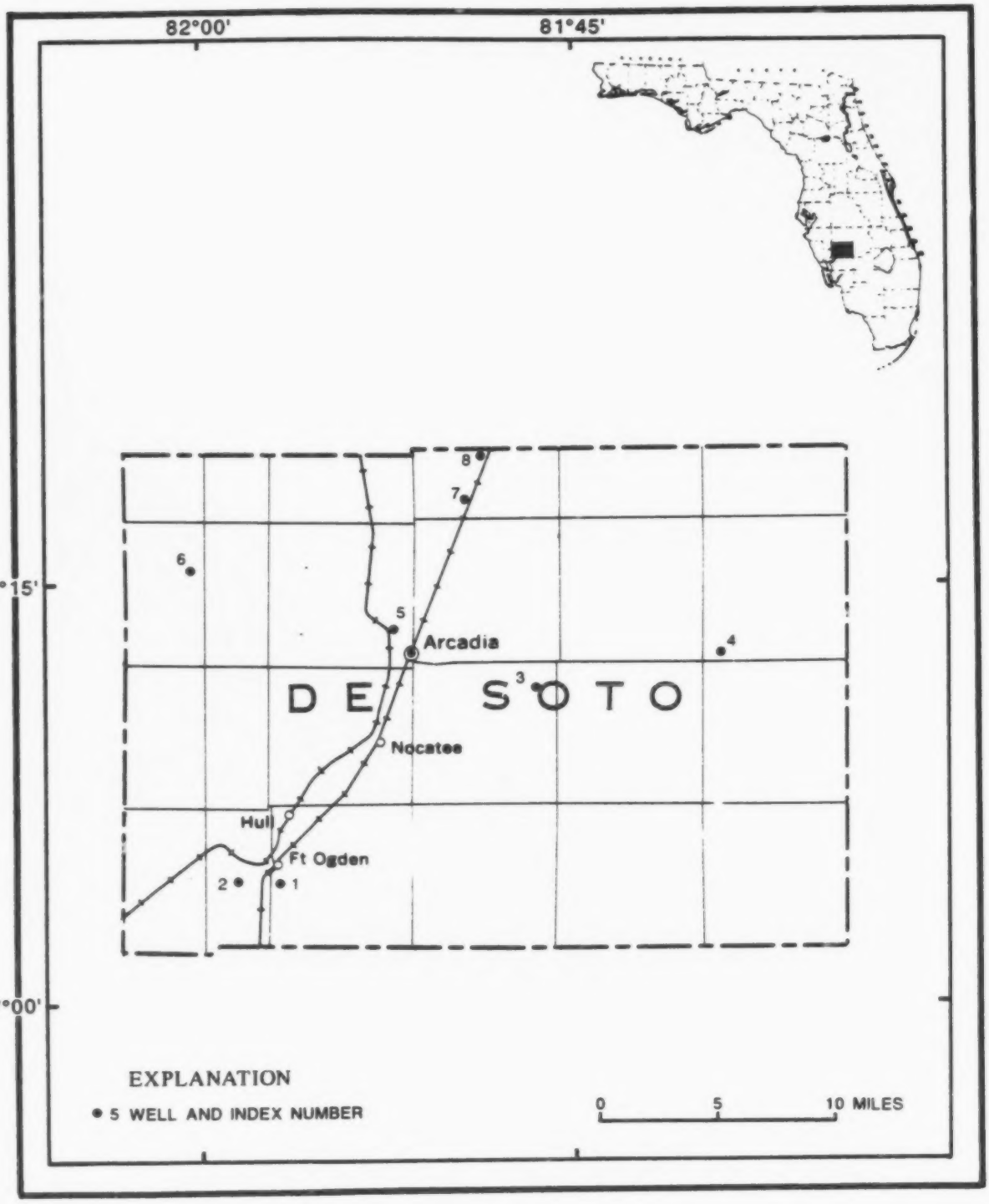

Figure 18.--Location of wells in De Soto County.

DE SOTO COUNTY

WELL NUMBER.--270410081565201. Morgan Deep Well near Fort Ogden, FL.

LOCATION.--Lat 27°04'10", long 81°56'52", in NW¼SE¼ sec.19, T.39 S., R.24 E., Hydrologic Unit 03100101, 0.6 mi east of U. S. Highway 17, and 1.8 mi southeast of Fort Ogden. Owner: L. R. Morgan.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused irrigation, artesian well, diameter 6 in., depth 1,100 ft.

INSTRUMENTATION.--Bimonthly measurement with pressure gage.

DATUM.--Land-surface datum is 38.53 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1982, land-surface datum was considered to be 33 ft, from topographic map. See PERIOD OF RECORD. Measuring point: Top of 6 in. tee, 1.5 ft above land-surface datum.

PERIOD OF RECORD.--March 1970 to current year (bimonthly), incomplete. Records of water levels prior to January 1974 are available in files of the Geological Survey. The figures of water level as elevation in feet, NGVD prior to Oct. 1, 1982 are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of +5.53 ft. Revised records are in files of the Geological Survey. See DATUM.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 51.12 ft NGVD, Sept. 27, 1978; lowest measured, 29.66 ft NGVD, Jan. 28, 1988.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
APR			AUG		
03...	1345	44.42	22...	1453	45.23
JUN					
27...	1220	45.03			

WELL NUMBER.--270414081584701. Lettuce Lake Well near Fort Ogden, FL.

LOCATION.--Lat 27°04'14", long 81°58'47", in NW¼SE¼ sec.23, T.39 S., R.23 E., Hydrologic Unit 03100101, 300 ft west of Lettuce Lake Road, 0.4 mi south of State Highway 761, and 2.0 mi southwest of Fort Ogden. Owner: General Development Corporation.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused irrigation, artesian well, diameter 16 in., depth 1,190 ft, cased to 105 ft.

INSTRUMENTATION.--Bimonthly measurement with pressure gage.

DATUM.--Altitude of land-surface datum is 21 ft, from topographic map. Measuring point: Top of flange, 3.0 ft above land-surface datum.

PERIOD OF RECORD.--January 1975 to current year (bimonthly), incomplete.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 53.11 ft NGVD, Sept. 27, 1978; lowest measured, 41.09 ft NGVD, Jan. 28, 1988.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			APR		
03...	1300	48.49	03...	1325	45.02
DEC			JUN		
19...	1215	43.40	27...	1200	47.20
FEB			AUG		
14...	0830	48.02	22...	1405	47.60

DE SOTO COUNTY

WELL NUMBER.--271115081462701. ROMP 16 Ocala Well near Arcadia, FL.

LOCATION.--Lat 27°11'15", long 81°46'27", in SW¼NW¼ sec.12, T.38 S., R.25 E., Hydrologic Unit 03100101, on County Road 760, 1.5 mi south of State Highway 70, and 5.7 mi southeast of Arcadia. Owner: Southwest Florida Water Management District.

AQUIFER.--Ocala Group of Eocene Age, Geologic Unit 124 OCAL.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 7 in., depth 942 ft, cased to 757 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 64.00 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 5.31 ft above land-surface datum.

PERIOD OF RECORD.--January 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 50.97 ft NGVD, Mar. 17, 1983; lowest, 39.63 ft NGVD, May 22, 1981.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	48.35	46.76	48.03	46.70	47.18	46.50	45.52	44.15	41.44	47.65	48.98	49.38
10	48.69	47.79	47.21	46.28	46.43	47.30	45.71	43.39	41.87	47.95	48.59	49.58
15	47.29	47.82	48.18	45.76	45.29	47.47	45.27	43.02	41.71	48.09	49.03	48.93
20	46.67	47.44	46.86	45.57	45.69	47.30	46.46	42.27	43.85	48.34	49.08	48.99
25	46.40	48.32	47.66	47.32	42.16	46.61	45.84	41.38	46.07	48.54	49.09	49.32
EOM	45.81	48.35	46.77	48.10	44.51	45.31	44.80	41.22	47.02	48.86	48.92	49.47
MAX	48.69	48.64	48.34	48.10	47.96	47.62	46.74	45.02	47.02	48.87	49.24	49.58

CAL YR 1988 MAX 50.56
WTR YR 1989 MAX 49.58

WELL NUMBER.--271115081462702. ROMP 16 Hawthorn Well near Arcadia, FL.

LOCATION.--Lat 27°11'15", long 81°46'27", in SW¼NW¼ sec.12, T.38 S., R.25 E., Hydrologic Unit 03100101, on State Highway 760, 1.5 mi south of State Highway 70, and 5.7 mi southeast of Arcadia. Owner: Southwest Florida Water Management District.

AQUIFER.--Hawthorn formation of Miocene Age, Geologic Unit 122 HTRN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 340 ft, cased to 300 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 64.00 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of shelter floor, 5.06 ft above land-surface datum.

PERIOD OF RECORD.--January 1980 to September 1983; October 1983 to current year (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 51.62 ft NGVD, Mar. 17, 1983; lowest, 29.43 ft NGVD, May 17, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
05...	1025	48.47	16...	1115	37.98
DEC			JUN		
20...	1011	44.18	28...	1050	45.98
FEB			AUG		
08...	0945	45.77	23...	1011	49.25
APR			SEP		
05...	1345	43.90	13...	1541	48.96

DE SOTO COUNTY

WELL NUMBER.--271115081462703. ROMP 16 Shallow Well near Arcadia, FL.

LOCATION.--Lat 27°11'15", long 81°46'27", in SW¼NW¼ sec.12, T.38 S., R.25 E., Hydrologic Unit 03100101, on County Road 760, 1.5 mi south of State Highway 70, and 5.7 mi southeast of Arcadia. Owner: Southwest Florida Water Management District.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 27 ft, cased to 17 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 64.00 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.84 ft above land-surface datum.

PERIOD OF RECORD.--January 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 64.01 ft NGVD, Mar. 13, 1984; lowest, 56.88 ft NGVD, Aug. 18, 19, 1981.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	61.64	61.26	60.33	60.21	60.38	60.64	59.62	58.94	58.14	61.84	62.01	61.58
10	60.87	60.70	60.15	60.06	60.18	60.62	59.41	58.81	58.06	61.35	62.57	61.80
15	60.58	60.39	61.11	59.94	59.98	60.27	59.28	58.67	58.01	60.89	63.36	60.87
20	60.38	60.64	60.72	59.82	59.83	60.01	59.24	58.54	60.22	60.67	63.04	60.65
25	60.18	60.85	60.55	61.15	60.25	59.78	59.14	58.41	60.82	62.37	62.90	62.51
EOM	59.97	60.42	60.36	60.66	60.12	59.59	59.03	58.25	61.28	63.04	61.63	61.67
MAX	61.93	61.27	61.39	61.39	60.60	60.68	59.62	59.02	61.36	63.04	63.70	62.51

CAL YR 1988 MAX 63.85
WTR YR 1989 MAX 63.70

DE SOTO COUNTY

WELL NUMBER.--271232081392201. ROMP 15 Avon Park Well near Arcadia, FL.

LOCATION.--Lat 27°12'32", long 81°39'22", in NW¼NW¼ sec.6, T.38 S., R.27 E., Hydrologic Unit 03100101, 75 ft south of State Highway 70, and 11 mi east of Arcadia. Owner: Southwest Florida Water Management District.

AQUIFER.--Avon Park formation of Eocene Age, Geologic Unit 124 AVPK.

WELL CHARACTERISTICS.--Drilled, observation well, diameter 10 in., depth 1,360 ft, cased to 577 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 78.89 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 2.00 ft above land-surface datum.

PERIOD OF RECORD.--November 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 50.87 ft NGVD, Sept. 8, 1988; lowest, 40.52 ft NGVD, June 4, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	47.68	46.83	47.94	47.00	47.71	46.87	45.62	44.30	41.03	48.05	49.34	49.76
10	48.45	48.13	47.34	46.76	47.21	47.69	45.47	43.48	41.85	48.31	49.11	49.96
15	47.07	48.33	48.51	45.83	45.30	48.05	45.60	43.07	41.80	48.49	49.42	49.55
20	46.40	47.42	47.58	45.82	45.88	47.95	47.11	42.87	43.50	48.70	49.49	49.51
25	46.39	48.63	47.82	47.60	43.62	47.41	46.72	42.15	46.32	48.88	49.59	49.72
EOM	45.42	48.68	47.01	48.53	45.04	45.58	44.52	41.18	47.34	49.19	49.55	49.83
MAX	48.45	48.96	48.74	48.53	48.45	48.09	47.27	45.09	47.34	49.19	49.69	49.97

CAL YR 1988 MAX 50.87
WTR YR 1989 MAX 49.97

WELL NUMBER.--271232081392202. ROMP 15 NRSD Well near Arcadia, FL.

LOCATION.--Lat 27°12'32", long 81°39'22", in NW¼NW¼ sec.6, T.38 S., R.27 E., Hydrologic Unit 03100101, 75 ft south of U.S. Highway 17, 0.75 mi east of De Soto correctional institution, and 11.0 mi east of Arcadia. Owner: Southwest Florida Water Management District.

AQUIFER.--Non-artisian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 55 ft, cased to 45 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 78.89 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 4.09 ft above land-surface datum.

PERIOD OF RECORD.--October 1987 to current year (bimonthly), incomplete.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 74.37 ft NGVD, Aug. 23, 1989; lowest measured, 71.46 ft NGVD, June 28, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			APR		
04...	1600	72.63	05...	1325	71.73
DEC			JUN		
20...	1130	71.66	28...	1115	71.46
FEB			AUG		
08...	1100	71.61	23...	1047	74.37

DE SOTO COUNTY

WELL NUMBER.--271308081522601. Arcadia Well 2 at Arcadia, FL.

LOCATION.--Lat 27°13'08", long 81°52'26", in NW¼NW¼ sec.36, T.37 S., R.24 E., Hydrologic Unit 03100101, 900 ft south of intersection State Highway 70 and Baldwin Avenue, and 0.9 mi west of U. S. Highway 17 in Arcadia. Owner: City of Arcadia.

AQUIFER.--Hawthorn formation of Miocene Age, Geologic Unit 122 HTRN.

WELL CHARACTERISTICS.--Drilled, unused municipal, artesian well, diameter 8 in., depth 372 ft, cased to 263 ft.

INSTRUMENTATION.--Bimonthly measurement with pressure gage.

DATUM.--Land-surface datum is 29.33 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1977, land-surface datum was considered to be 28 ft, from topographic map. See PERIOD OF RECORD. Measuring point: Top of 6 in. valve, 3.10 ft above land-surface datum.

PERIOD OF RECORD.--November 1970 to current year (bimonthly). Records of water levels prior to January 1974 are available in files of the Geological Survey. The figures of water level as elevation in feet, NGVD prior to Oct. 1, 1977, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of +1.33 ft. Revised records are in files of the Geological Survey. See DATUM.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 50.45 ft NGVD, Sept. 27, 1978; lowest measured, 34.23 ft NGVD, May 18, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
11...	1050	47.68	15...	1925	38.03
DEC			JUN		
21...	1005	46.75	29...	1150	39.23
FEB			AUG		
14...	0915	45.13	17...	1240	46.63
APR			SEP		
11...	1315	44.90	12...	1650	50.22

WELL NUMBER.--271310081522701. Arcadia Well 1 at Arcadia, FL.

LOCATION.--Lat 27°13'10", long 81°52'27", in NW¼NW¼ sec.36, T.37 S., R.24 E., Hydrologic Unit 03100101, 190 ft south of intersection State Highway 70 and Parker Avenue, and 0.9 mi west of U. S. Highway 17 in Arcadia. Owner: City of Arcadia.

AQUIFER.--Hawthorn formation of Miocene Age, Geologic Unit 122 HTRN.

WELL CHARACTERISTICS.--Drilled, unused municipal, artesian well, diameter 10 in., depth 250 ft, cased to 84 ft.

INSTRUMENTATION.--Bimonthly measurement with pressure gage or steel tape.

DATUM.--Land-surface datum is 27.76 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1979, land-surface datum was considered to be 28 ft, from topographic map. See PERIOD OF RECORD. Measuring point: Top of 4 in. coupling, 1.55 ft above land-surface datum. Prior to Mar. 31, 1975, top of casing extension, 1.2 ft above land-surface datum.

PERIOD OF RECORD.--July 1970 to current year (bimonthly), incomplete. Records of water levels prior to January 1974 are available in files of the Geological Survey. The figures of water level as elevation in feet, NGVD prior to Oct. 1, 1979, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of -0.24 ft. Revised records are in files of the Geological Survey. See DATUM.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 37.06 ft NGVD, Sept. 15, 1971; lowest measured, 25.28 ft NGVD, May 26, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
11...	1045	34.54	15...	1915	29.88
DEC			JUN		
21...	1010	33.58	29...	1145	31.28
FEB			AUG		
14...	0920	32.33	17...	1230	35.56
APR			SEP		
11...	1310	31.89	12...	1640	36.51

DE SOTO COUNTY

WELL NUMBER.--271538082002301. AMAX No. 3 Well near Pine Level, FL.

LOCATION.--Lat 27°15'38", long 82°00'23", in SW¼NW¼ sec.15, T.37 S., R.23 E., Hydrologic Unit 03100101, 0.7 mi south of State Highway 70, and 1.7 mi north of Pine Level. Owner: Unknown.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused irrigation , artesian well, diameter 8 in., depth 1,547 ft, cased to 340 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Altitude of land-surface datum is 58 ft, from topographic map. Measuring point: Top of recorder shelter floor, 2.00 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 44.84 ft NGVD, Sept. 22, 1986; lowest, 28.53 ft NGVD, May 28, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	42.58	38.32	40.54	39.45	38.59	35.38	34.17	32.89	29.35	37.78	41.10	42.03
10	42.42	39.58	39.67	38.25	37.91	36.92	35.02	31.69	30.04	38.56	40.72	42.33
15	40.54	39.54	40.52	37.29	36.71	36.93	33.92	30.69	30.97	38.85	41.20	41.99
20	40.00	38.77	39.46	36.84	35.85	36.48	35.06	29.10	33.07	39.53	41.38	41.76
25	38.86	39.95	39.83	38.48	33.66	35.57	34.59	29.28	35.17	40.25	41.90	41.79
EOM	37.99	40.51	39.61	39.15	32.65	34.30	33.44	28.95	36.56	40.92	41.81	42.39
MAX	42.69	40.51	40.87	39.55	39.29	37.28	35.22	33.92	36.56	40.92	41.94	42.44

CAL YR 1988 MAX 44.44
WTR YR 1989 MAX 42.69

WELL NUMBER.--271757081493001. ROMP 26 Shallow Well near Gardner, FL.

LOCATION.--Lat 27°17'57", long 81°49'30", in SW¼SW¼ sec.33, T.36 S., R.25 E., Hydrologic Unit 03100101, 235 ft east of U. S. Highway 17, and 3.8 mi south of Gardner. Owner: Southwest Florida Water Management District.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation well, diameter 6 in., depth 15 ft, cased to 10 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 75.37 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1980, land-surface datum was considered to be 77 ft, from topographic map. See PERIOD OF RECORD. Measuring point: Top of recorder shelter floor, 1.70 ft above land-surface datum. See REMARKS.

REMARKS.--Measuring point distances above land-surface datum prior to Oct. 1, 1983, are in error. Corrections applied to water level elevations are defined in PERIOD OF RECORD.

PERIOD OF RECORD.--August 1976 to February 1978 (monthly); March 1978 to current year. The figures of water level as elevation in feet, NGVD prior to Oct. 1, 1983, are in error. Correct elevations for data published prior to this date may be obtained by using datum corrections of -2.08 ft August 1976 to Sept. 30, 1980, and +1.00 ft Oct. 1, 1980, to Sept. 30, 1983. Revised records are in files of the Geological Survey. See DATUM.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 75.11 ft NGVD, June 20, 1982; lowest, 67.40 ft NGVD, June 14, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	71.16	70.90	69.94	69.35	69.73	69.91	69.07	68.32	67.56	68.92	68.66	69.07
10	70.74	70.81	69.78	69.24	69.55	70.00	68.94	68.18	67.46	68.91	68.39	69.15
15	70.47	70.55	69.89	69.14	69.41	69.87	68.81	68.06	67.54	68.72	68.67	68.85
20	70.25	70.26	69.71	69.03	69.29	69.65	68.69	67.93	67.81	68.52	68.66	68.54
25	70.05	70.27	69.61	70.06	69.19	69.43	68.57	67.80	68.35	68.95	68.45	68.60
EOM	69.82	70.10	69.48	69.93	69.18	69.22	68.44	67.67	68.70	68.98	68.27	69.34
MAX	71.20	70.93	70.07	70.06	69.89	70.00	69.19	68.42	68.70	69.04	68.93	69.34

CAL YR 1988 MAX 73.34
WTR YR 1989 MAX 71.20

DE SOTO COUNTY

WELL NUMBER.--271757081493002. ROMP 26 Avon Park Well near Gardner, FL.

LOCATION.--Lat 27°17'57", long 81°49'30", in SW¼SW¼ sec.33, T.36 S., R.25 E., Hydrologic Unit 03100101, 235 ft east of U. S. Highway 17, and 3.8 mi south of Gardner. Owner: Southwest Florida Water Management District.

AQUIFER.--Avon Park formation of Eocene Age, Geologic Unit 124 AVPK.

WELL CHARACTERISTICS.--Drilled, observation well, diameter 12 in., depth 1,320 ft, cased to 580 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 75.28 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1980, land-surface datum was considered to be 77 ft, from topographic map. See PERIOD OF RECORD. Measuring point: Top of recorder shelter floor, 2.59 ft above land-surface datum.

PERIOD OF RECORD.--March 1978 to current year. The figures of water level as elevation in feet, NGVD prior to Oct. 1, 1980, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of -2.03 ft. Revised records are in files of the Geological Survey. See DATUM.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 51.28 ft NGVD, Oct. 5, 1979; lowest, 29.10 ft NGVD, May 27, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	46.96	42.42	45.31	42.82	42.41	e40.40	e38.80	35.40	e29.80	e43.00	45.93	46.99
10	46.72	44.15	42.95	41.08	39.76	e42.40	e38.70	34.34	e32.20	e43.60	44.98	47.43
15	44.04	43.27	44.51	40.82	39.98	e42.30	37.91	34.35	e31.80	e44.20	46.35	46.20
20	42.81	43.15	41.76	39.23	40.19	e41.80	38.41	32.11	e34.80	e44.90	46.67	44.67
25	42.28	44.69	43.58	42.92	30.62	e41.30	38.34	30.50	e39.00	45.31	46.18	46.24
EOM	42.11	45.05	42.87	43.93	e35.40	e38.70	36.87	e30.30	e41.70	45.91	45.43	47.22
MAX	47.08	45.34	45.31	44.28	43.64	42.80	40.06	37.60	41.70	45.91	46.71	47.43

CAL YR 1988 MAX 49.57
WTR YR 1989 MAX 47.43

e Estimated

WELL NUMBER.--271757081493003. ROMP 26 Hawthorn Well near Gardner, FL.

LOCATION.--Lat 27°17'57", long 81°49'30", in SW¼SW¼ sec.33, T.36 S., R.25 E., Hydrologic Unit 03100101, 200 ft east of U. S. Highway 17, and 3.8 mi south of Gardner. Owner: Southwest Florida Water Management District.

AQUIFER.--Hawthorn formation of Miocene Age, Geologic Unit 122 HTRN.

WELL CHARACTERISTICS.--Drilled, observation well, diameter 12 in., depth 180 ft, cased to 140 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 75.84 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1980, land-surface datum was considered to be 77 ft, from topographic map. See PERIOD OF RECORD. Measuring point: Top of recorder shelter floor, 2.58 ft above land-surface datum.

PERIOD OF RECORD.--March 1978 to current year. The figures of water level as elevation in feet, NGVD prior to Oct. 1, 1980, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of -1.98 ft. Revised records are in files of the Geological Survey. See DATUM.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 51.17 ft NGVD, Oct. 1, 1979; lowest, 17.17 ft NGVD, May 14, 1981.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	46.52	41.17	44.79	42.25	40.14	e39.10	e37.80	34.16	30.61	e42.10	45.42	46.33
10	46.47	43.25	42.13	40.32	35.50	e41.10	e37.70	32.50	e31.20	e42.60	43.85	46.85
15	43.75	40.89	43.67	40.12	38.95	e41.60	36.93	33.96	e31.00	e43.10	45.56	44.59
20	41.51	42.13	40.54	37.58	39.53	e41.70	36.01	30.90	e36.30	e43.60	46.06	42.22
25	41.65	43.99	43.06	42.20	e33.20	e40.20	34.82	e30.30	e39.30	44.86	45.53	45.22
EOM	41.67	44.49	41.99	43.38	e35.10	e37.60	35.93	30.41	e41.20	45.46	44.23	46.44
MAX	46.72	44.69	44.79	43.76	42.92	42.00	39.13	36.46	41.20	45.46	46.10	46.85

CAL YR 1988 MAX 49.31
WTR YR 1989 MAX 46.85

e Estimated

DE SOTO COUNTY

WELL NUMBER.--272012081482501. Marshall Deep Well near Gardner, FL.

LOCATION.--Lat 27°20'12", long 81°48'25", in NW¼NW¼ sec.22, T.36 S., R.25 E., Hydrologic Unit 03100101, 200 ft east of U. S. Highway 17, and 1.0 mi south of Gardner. Owner: Col. D. E. Marshall.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused irrigation, artesian well, diameter 5 in., depth 478 ft, cased to 137 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 62.58 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.12 ft above land-surface datum.

REMARKS.--Extremes may have been exceeded during periods of missing record.

PERIOD OF RECORD.--November 1962 to current year, incomplete. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 55.24 ft NGVD, Mar. 5, 1964; lowest, 18.52 ft NGVD, May 25, 1981.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	45.77	39.03	e40.50	40.11	38.72	31.25	31.71	29.34	23.20	34.15	40.84	42.92
10	45.68	40.20	e40.30	38.77	37.05	33.29	32.19	28.13	24.61	35.84	40.52	43.53
15	44.38	40.30	e41.90	37.56	35.98	34.99	30.65	26.86	24.65	36.99	41.41	43.47
20	42.84	40.20	40.46	36.78	35.24	34.84	31.51	25.08	27.17	38.18	42.05	42.54
25	41.60	e41.40	40.86	37.42	31.06	33.53	32.14	24.43	29.89	39.07	42.46	41.92
EOM	39.96	e39.90	40.26	39.16	29.70	32.63	29.49	23.02	32.19	40.12	42.68	43.58
MAX	45.98	41.40	42.20	40.49	39.16	34.99	32.19	29.86	32.19	40.12	42.69	43.63

CAL YR 1988 MAX 47.68
WTR YR 1989 MAX 45.98

e Estimated

STATION NUMBER	STATION NAME	LAT-I-TUDE	LONG-I-TUDE	DATE	ELEV-ATION ABOVE NGVD (FEET)
	DE SOTO COUNTY				
270417081575601	ROB LANE DE SOTO 36 WELL (RUSSELL) NR ARCADIA	27 04 17 N	081 57 56 W	09-12-89	47.86
270504081464401	NICHOLS RANCH D. WELL NR ARCADIA,FL	27 05 04 N	081 46 44 W	09-13-89	46.09
270540082001101	GDU WELL M-2 NR FT OGDEN	27 05 40 N	082 00 11 W	05-17-89	41.10
270540082001102	GDU WELL T-2 NR FT OGDEN	27 05 40 N	082 00 11 W	05-17-89 09-12-89	39.36 46.87
270554082003601	GEN DEV CORP AVON PK WELL NR FT. ODGEN	27 05 54 N	082 00 36 W	05-17-89 09-12-89	42.42 48.22
271109081541901	MINUTE MAID WELL 43 FBG D-68 NR ARCADIA, FL	27 11 09 N	081 54 19 W	09-12-89	47.80
271113081543301	DESOTO 44 WELL (MINUTE MAID) NR ARCADIA	27 11 13 N	081 54 33 W	09-12-89	47.22
271141081540701	#15A NR ARCADIA,FL	27 11 41 N	081 54 07 W	09-12-89	44.68
271208082025301	CLAVEL RANCH WELL NR ARCADIA	27 12 08 N	082 02 53 W	09-12-89	44.00
271213082023801	AMAX MW-4 DP W/O ARCADIA	27 12 13 N	082 02 38 W	05-19-89 09-15-89	33.01 43.31
271228081482801	TOWNSEN RD HWTN ARCADIA	27 12 28 N	081 48 28 W	09-13-89	46.99
271355082012601	AMAX MW-5 DP W/O ARCADIA	27 13 55 N	082 01 26 W	05-19-89 09-15-89	31.82 43.47
271405081453201	BEVIS D. IRR WELL NR ARCADIA	27 14 05 N	081 45 32 W	05-16-89 09-13-89	39.02 49.85
271407082000401	HOLLINGSWORTH 716 WELL NR ARCADIA, FL	27 14 07 N	082 00 04 W	05-15-89	42.20
271416081374601	TRG WELL J14 NR ARCADIA, FLA.	27 14 16 N	081 37 46 W	05-16-89 09-14-89	41.11 47.44
271416081394301	TRG WELL J2 NR ARCADIA,FL	27 14 16 N	081 39 43 W	09-14-89	47.57
271417081344801	TRG WELL J32 NR ARCADIA,FLA	27 14 17 N	081 34 48 W	09-14-89	48.72
271459082032201	MURDOCK NE QUAD	27 14 59 N	082 03 22 W	05-19-89 09-15-89	26.61 40.21
271502082035003	AMAX PINE LEVEL MINE WELL MB-225 NR ARCADIA, FL	27 15 02 N	082 03 50 W	05-19-89 09-15-89	27.28 38.48
271601081335001	TRG WELL J40 NR ARCADIA,FLA	27 16 01 N	081 33 50 W	09-14-89	50.18
271601081344901	TRG WELL J34 NR ARCADIA, FLA.	27 16 01 N	081 34 49 W	09-14-89	48.54
271601081364601	TRG WELL J22 NR ARCADIA, FLA.	27 16 01 N	081 36 46 W	05-16-89 09-14-89	41.11 48.55
271601081394301	TRG WELL J4.1 NR ARCADIA,FLA	27 16 01 N	081 39 43 W	09-14-89	46.90
271610081565401	CUNNINGHAM WELL NR ARCADIA,FL	27 16 12 N	081 56 54 W	05-15-89 09-12-89	34.29 46.00
271623081520101	CAMP CHANYATAH WELL 49 NR ARCADIA, FL	27 16 23 N	081 52 01 W	05-17-89 09-13-89	26.44 35.35
271653081464701	DESOTO 53-47 WELL (W.F. UNDERHILL) NR ARCADIA	27 16 53 N	081 46 47 W	09-13-89	58.10
271655081345001	TRG WELL J35 NR ARCADIA,FLA	27 16 55 N	081 34 50 W	09-14-89	49.47
271746081404301	S. TOMATO GRO. WELL NR ARCADIA, FLA	27 17 46 N	081 40 43 W	05-16-89 09-14-89	41.11 49.11
271746081453501	FLA POWER & LIGHT WELL NEAR ARCADIA,FL	27 17 46 N	081 45 35 W	05-16-89 09-13-89	38.97 49.20
271748081345101	TRG WELL J36 NR ARCADIA,FLA	27 17 48 N	081 34 51 W	09-14-89	59.10
271748081534601	STRAITS DP NR ARCADIA	27 17 48 N	081 53 46 W	05-17-89 09-12-89	24.04 41.82

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1988 TO SEPTEMBER 1989

STATION NUMBER	STATION NAME	LAT-I-TUDE	LONG-I-TUDE	DATE	ELEV-ATION ABOVE NGVD (FEET)
	DE SOTO COUNTY				
271837081443601	FP&L DP NR ARCADIA	27 18 37 N	081 44 36 W	05-16-89	79.05
271937081365901	SCARBOROUGH DEEP WELL NR CREWSVILLE	27 19 37 N	081 36 59 W	05-17-89	35.84
272014081595701	HOLLINGSWORTH WELL 751 NR ARCADIA, FL	27 20 14 N	081 59 57 W	09-12-89	33.65
272015081392701	AMOCA 2 OIL TEST WELL NR ARCADIA, FL	27 20 15 N	081 39 27 W	05-17-89	47.81
				09-13-89	57.70
273407082025501	DURRANCE DP WELL 734202332 141 NR DUETTE	27 34 07 N	082 02 55 W	05-16-89	9.87
				09-12-89	36.04

KEY TO SITE LOCATIONS ON FIGURE 19

HARDEE COUNTY

INDEX NUMBER	SITE NUMBER	PAGE NUMBER
1	272714081545901	63
1	272714081545902	63
1	272714081545903	64
2	272728081474701	65
2	272728081474702	66
2	272728081474703	66
3	272924081395801	67
4	273156081451401	67

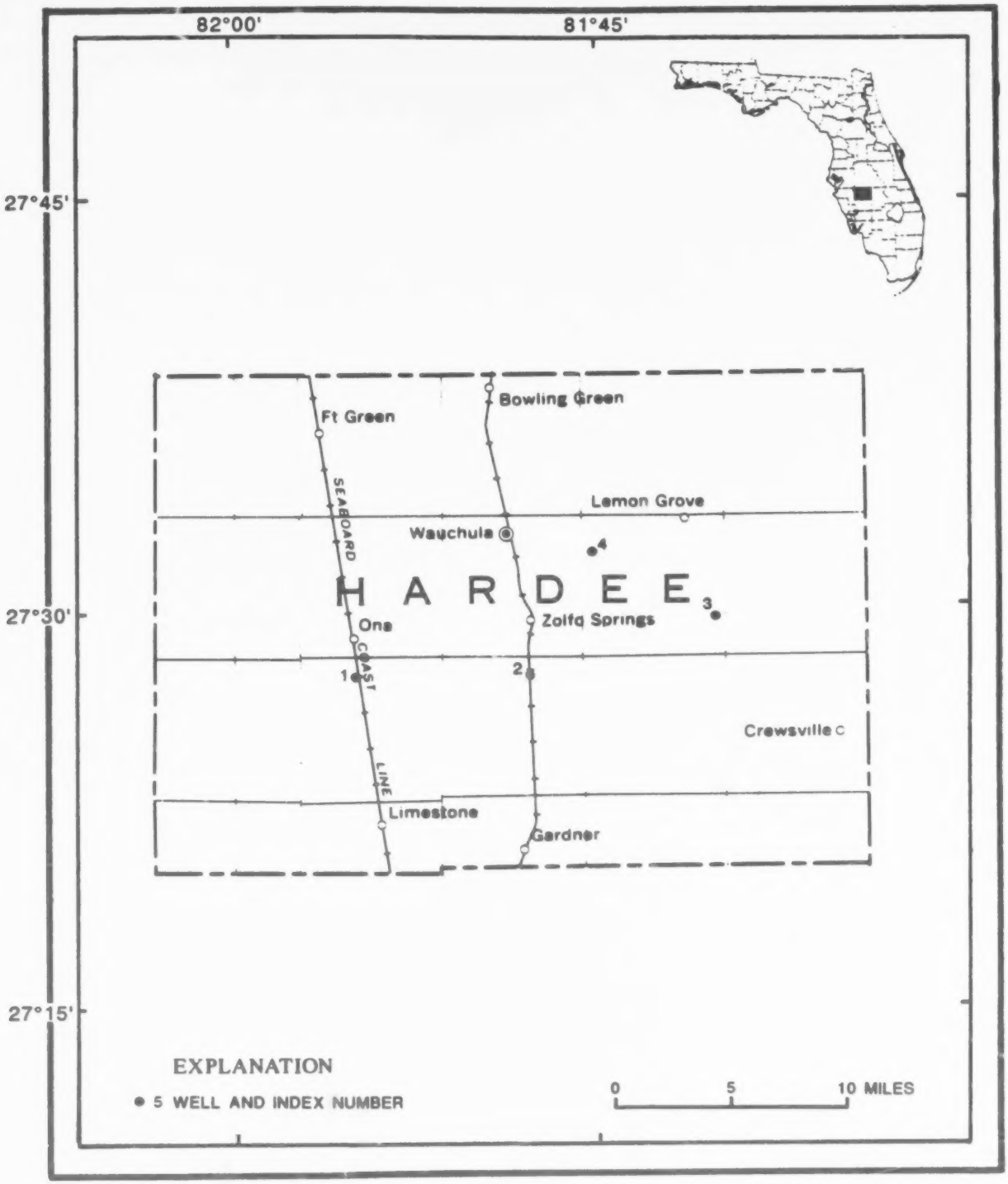

Figure 19.--Location of wells in Hardee County.

HARDEE COUNTY

WELL NUMBER.--272714081545901. ROMP 31 Avon Park Well near Ona, FL.

LOCATION.--Lat 27°27'14", long 81°54'59", in NE¼NW¼ sec.9, T.35 S., R.24 E., Hydrologic Unit 03100101, 80 ft west of State Highway 663, and 1.4 mi south of Ona. Owner: Southwest Florida Water Management District.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 8 in., depth 1,152 ft, cased to 460 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 78.09 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District). Measuring point: Top of recorder shelter floor, 3.00 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby irrigation wells. Well also sampled for water quality.

PERIOD OF RECORD.--November 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 56.65 ft NGVD, Oct. 15, 1982; lowest, 7.38 ft NGVD, May 27, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	46.80	35.99	39.34	38.00	34.14	20.42	22.54	20.48	9.20	25.17	35.98	39.00
10	46.84	37.06	39.31	36.57	32.34	23.61	23.90	18.94	11.44	27.20	36.02	40.27
15	45.07	37.56	39.80	34.97	29.38	25.41	20.89	15.31	13.62	29.40	37.74	40.50
20	43.13	37.11	38.96	33.22	27.37	25.34	21.70	11.12	16.46	31.27	38.39	39.90
25	40.49	37.54	39.27	33.38	23.57	24.00	21.52	9.55	19.76	32.77	38.29	40.45
EOM	37.15	38.64	38.54	35.09	18.39	23.02	19.07	9.36	22.37	34.94	38.44	41.75
MAX	47.21	38.64	40.19	38.54	35.08	25.52	23.90	20.55	22.37	34.94	39.29	41.75

CAL YR 1988 MAX 49.05
WTR YR 1989 MAX 47.21

WELL NUMBER.--272714081545902. ROMP 31 Hawthorn Well near Ona, FL.

LOCATION.--Lat 27°27'14", long 81°54'59", in NE¼NW¼ sec.9, T.35 S., R.24 E., Hydrologic Unit 03100101, 80 ft west of State Highway 663, and 1.4 mi south of Ona. Owner: Southwest Florida Water Management District.

AQUIFER.--Hawthorn formation of Miocene Age, Geologic Unit 122 HTRN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 8 in., depth 350 ft, cased to 130 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 78.41 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.04 ft above land-surface datum. Prior to Mar. 31, 1988, top of recorder shelter floor, 3.00 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby irrigation wells. Well also sampled for water quality.

PERIOD OF RECORD.--November 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 58.37 ft NGVD, Oct. 15, 16, 1982; lowest, 9.10 ft NGVD, May 27, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	48.15	37.71	40.21	39.58	35.21	e24.90	e25.60	22.40	11.30	26.33	e37.20	39.71
10	48.27	38.63	40.88	37.90	33.25	e27.95	e25.10	20.61	13.60	28.49	e36.90	41.03
15	46.09	38.26	41.47	36.78	31.17	e30.20	22.27	16.80	15.22	30.39	e38.70	41.05
20	43.39	38.43	40.28	35.15	29.37	e29.20	23.13	11.76	18.22	32.14	39.24	40.81
25	40.95	39.16	41.07	35.40	24.37	e27.10	23.21	10.90	21.12	e34.10	39.47	41.31
EOM	38.67	40.12	39.46	36.70	e21.70	e25.80	20.67	11.28	23.69	e36.10	39.20	42.61
MAX	48.29	40.12	41.84	40.09	36.68	30.20	26.65	22.53	23.69	36.10	39.99	42.61

CAL YR 1988 MAX 50.26
WTR YR 1989 MAX 48.29

e Estimated

HARDEE COUNTY

WELL NUMBER.--272714081545903. ROMP 31 Shallow Well near Ona, FL.

LOCATION.--Lat 27°27'14", long 81°54'59", in NE¼NW¼ sec.9, T.35 S., R.24 E., Hydrologic Unit 03100101, 80 ft west of State Highway 663, and 1.4 mi south of Ona. Owner: Southwest Florida Water Management District.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 111 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 15 ft, cased to 5 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 78.76 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District). Measuring point: Top of casing, 1.00 ft above land-surface datum.

PERIOD OF RECORD.--September 1977 to current year. Records of water levels prior to October 1977 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 78.46 ft NGVD, Sept. 7, 1988; lowest, 68.94 ft NGVD, Sept. 22, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	74.75	73.36	72.87	72.32	72.17	72.19	72.16	70.95	69.40	70.42	71.17	69.59
10	74.22	73.38	72.61	72.10	71.92	72.52	71.91	70.59	69.21	71.16	70.64	69.66
15	73.71	73.13	72.96	71.95	71.66	72.38	71.62	70.29	69.08	70.95	70.75	69.31
20	73.14	72.85	72.75	71.81	71.53	72.22	71.30	70.03	68.97	70.77	70.43	69.05
25	72.94	73.22	72.55	72.51	71.46	72.15	71.12	69.83	69.65	71.19	70.01	69.65
EOM	72.54	73.11	72.42	72.37	71.33	72.06	70.94	69.65	69.82	71.34	69.72	71.35
MAX	74.82	73.44	73.08	72.51	72.35	72.52	72.21	71.10	69.82	71.35	71.40	71.35

CAL YR 1988 MAX 78.46
WTR YR 1989 MAX 74.82

HARDEE COUNTY

WELL NUMBER.--272728081474701. ROMP 30 Avon Park Well near Zolfo Springs, FL.

LOCATION.--Lat 27°27'28", long 81°47'47", in SW¼SE¼ sec.3, T.35 S., R.25 E., Hydrologic Unit 03100101, 200 ft east of State Highway 17, 0.25 mi north of State Highway 684, and 2.4 mi south of Zolfo Springs. Owner: Southwest Florida Water Management District.

AQUIFER.--Avon Park formation of Eocene Age, Geologic Unit 124 AVPK.

WELL CHARACTERISTICS.--Drilled, observation well, diameter 8 in., depth 1,266 ft, cased to 380 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 66.73 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District). Measuring point: Top of recorder shelter floor, 4.50 ft above land-surface datum.

REMARKS.--Extremes may have been exceeded during periods of missing record.

PERIOD OF RECORD.--August 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 59.54 ft NGVD, Oct. 15, 1982; lowest, 13.00 ft NGVD, estimated, May 27, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	51.11	40.37	44.53	41.96	39.26	26.31	28.63	26.64	17.18	31.26	40.70	43.75
10	51.30	41.95	43.68	41.04	36.00	29.79	29.92	24.68	18.62	33.48	40.69	45.30
15	49.49	42.40	44.54	39.41	33.81	32.43	26.54	21.45	20.09	34.90	42.25	45.84
20	47.68	41.89	42.83	37.26	33.32	32.66	27.49	e14.90	23.12	36.69	43.30	45.90
25	45.10	42.84	43.40	38.41	25.97	31.07	28.16	e14.20	26.32	37.92	43.75	45.69
EOM	41.84	43.79	42.88	40.26	22.45	29.45	25.08	15.47	28.60	39.65	43.99	46.78
MAX	51.31	43.79	44.82	43.03	40.25	32.66	29.92	26.74	28.60	39.65	44.18	46.78

CAL YR 1988 MAX 53.13
WTR YR 1989 MAX 51.31

e Estimated

HARDEE COUNTY

WELL NUMBER.--272728081474702. ROMP 30 Tampa Well near Zolfo Springs, FL.

LOCATION.--Lat 27°27'28", long 81°47'47", in SW¼SE¼ sec.3, T.35 S., R.25 E., Hydrologic Unit 03100101, 200 ft east of State Highway 17, 0.25 mi north of State Highway 684, and 2.4 mi south of Zolfo Springs. Owner: Southwest Florida Water Management District.

AQUIFER.--Tampa limestone formation of Miocene Age, Geologic Unit 122 TAMP.

WELL CHARACTERISTICS.--Drilled, observation well, diameter 8 in., depth 316 ft, cased to 280 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 66.73 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District). Measuring point: Top of recorder shelter floor, 4.11 ft above land-surface datum.

PERIOD OF RECORD.--August 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 57.34 ft NGVD, Apr. 19, 1983; lowest, 19.60 ft NGVD, estimated, May 27, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	52.32	43.69	46.84	44.85	43.18	31.89	34.51	31.95	23.91	34.36	42.49	45.42
10	52.05	44.52	46.25	44.18	41.51	34.46	34.75	30.83	25.29	36.21	42.59	46.48
15	50.85	44.90	46.51	42.87	38.80	36.04	32.51	28.00	26.08	37.54	43.81	46.99
20	49.58	44.39	45.92	41.58	38.12	36.80	32.82	24.87	27.98	39.09	44.81	47.30
25	47.80	45.50	45.50	42.07	35.32	35.46	32.78	22.82	30.17	40.17	45.36	47.40
EOM	45.24	46.10	45.41	43.22	30.34	35.10	30.72	21.88	32.24	41.42	45.51	47.88
MAX	52.33	46.10	46.85	45.52	43.33	36.80	34.83	31.96	32.24	41.42	45.62	47.88

CAL YR 1988 MAX 53.66
WTR YR 1989 MAX 52.33

e Estimated

WELL NUMBER.--272728081474703. ROMP 30 Shallow Well near Zolfo Springs, FL.

LOCATION.--Lat 27°27'28", long 81°47'47", in SW¼SE¼ sec.3, T.35 S., R.25 E., Hydrologic Unit 03100101, 200 ft east of State Highway 17, 0.25 mi north of State Highway 684, and 2.4 mi south of Zolfo Springs. Owner: Southwest Florida Water Management District.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 111 NRSD.

WELL CHARACTERISTICS.--Drilled, observation well, diameter 8 in., depth 15 ft, cased to 5 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 66.73 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District). Measuring point: Top of recorder shelter floor, 4.12 ft above land-surface datum.

PERIOD OF RECORD.--August 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 66.92 ft NGVD, June 20, 1982; lowest, 62.10 ft NGVD, June 3, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	65.41	65.51	63.91	63.61	63.91	64.85	63.43	63.22	63.06	63.59	63.55	65.67
10	64.43	64.51	63.76	63.53	63.93	64.66	63.16	62.90	62.97	64.30	63.69	65.58
15	64.04	64.14	64.01	63.53	63.79	64.19	64.44	62.79	63.24	63.80	64.84	64.65
20	63.86	63.90	63.74	63.64	63.65	63.87	63.86	62.67	63.13	63.82	65.41	64.82
25	63.64	64.48	63.96	64.73	64.28	63.73	63.47	62.48	63.28	64.39	64.38	66.25
EOM	63.67	64.27	63.87	64.19	64.15	63.38	63.60	62.21	63.73	64.01	63.86	65.26
MAX	65.86	65.67	64.29	65.20	64.45	65.18	64.44	63.58	63.73	64.97	65.41	66.43

CAL YR 1988 MAX 66.88
WTR YR 1989 MAX 66.43

HARDEE COUNTY

WELL NUMBER.--272924081395801. Hass Bryan Road Well near Zolfo Springs, FL.

LOCATION.--Lat 27°29'24", long 81°39'58", in NE¼NE¼ sec.25, T.34 S., R.26 E., Hydrologic Unit 03100101, 0.7 mi south of State Highway 636, and 8.0 mi east of Zolfo Springs. Owner: Frank Hass.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, irrigation, artesian well, diameter 10 in.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Altitude of land-surface datum is 80 ft, from topographic map. Measuring point: Top of access hole, 0.20 ft above land-surface datum. See WRD FL-81-3B for history of changes prior to Oct. 1, 1981; Oct. 1, 1981, to Sept. 30, 1983, end of 8 in. flange, 2.68 ft above land-surface datum; Sept. 30, 1983, to Jan. 12, 1988, bottom edge of flange, 0.20 ft above land-surface datum. See REMARKS.

REMARKS.--Water levels affected by pumping of nearby irrigation wells. Actual measuring point is changed frequently by addition of pipe by well owner. See Station Analyses for individual readings. See INSTRUMENTATION.

PERIOD OF RECORD.--January 1970 to current year (bimonthly), incomplete. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 79.02 ft NGVD, Sept. 20, 1979; lowest measured, 38.86 ft NGVD, May 22, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
12...	1153	68.90	17...	1005	44.88
DEC			JUN		
07...	1149	67.74	07...	0903	44.88
FEB			AUG		
15...	1042	55.51	22...	1415	63.88
APR			SEP		
12...	1110	49.89	13...	1043	64.92

WELL NUMBER.--273156081451401. Rowell Deep Well near Wauchula, FL.

LOCATION.--Lat 27°31'56", long 81°45'14", in SE¼SW¼ sec.7, T.34 S., R.26 S., Hydrologic Unit 03100101, 0.5 mi south of State Highway 652, and 4.0 mi east of Wauchula. Owner: Stacey Rowell.

AQUIFER.--Hawthorn formation of Miocene Age, Geologic Unit 122 HTRN.

WELL CHARACTERISTICS.--Drilled, unused irrigation, artesian well, diameter 6 in., depth 267 ft, cased to 39 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 98.14 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.87 ft above land-surface datum. Prior to Sept. 30, 1976, top of 5 in. casing extension, 3.00 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby industrial and irrigation wells. Extremes may have been exceeded during periods of missing record.

PERIOD OF RECORD.--September 1962 to current year, incomplete. Records of water levels prior to January 1974 are available in files of the Geological Survey.

REVISED RECORDS.--WDR FL-76-3: 1975.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 73.44 ft NGVD, Oct. 18, 1962; lowest recorded, 21.70 ft NGVD, May 27, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	60.50	49.96	54.43	51.47	49.48	e36.80	40.47	38.70	e30.80	42.93	50.85	53.69
10	60.49	51.79	52.38	50.12	43.76	41.21	39.03	34.42	31.69	45.17	50.80	54.92
15	57.96	51.89	54.60	48.68	43.76	43.23	37.07	33.55	33.43	46.35	52.17	54.76
20	54.79	51.44	51.99	46.48	42.95	43.13	39.09	27.13	35.83	47.47	52.87	55.87
25	52.59	52.85	53.48	49.62	24.18	41.65	36.85	25.19	38.86	48.49	53.25	56.02
EOM	49.85	54.24	53.01	51.28	e26.00	39.14	37.63	e26.20	40.82	50.01	52.06	56.48
MAX	60.50	54.24	54.74	53.10	50.94	43.48	40.63	39.50	40.82	50.01	53.64	56.48

CAL YR 1988 MAX 62.61
WTR YR 1989 MAX 60.50

e Estimated

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1988 TO SEPTEMBER 1989

STATION NUMBER	STATION NAME	LAT-I-TUDE	LONG-I-TUDE	DATE	ELEV-ATION ABOVE NGVD (FEET)
	HARDEE COUNTY				
272038081530701	LIMESTONE LAND 622 WELL NR LIMESTONE, FL	27 20 38 N	081 53 07 W	05-16-89	20.33
272041081562301	CARLTON JR WELL NR LIMESTONE,FL NO. 244	27 20 41 N	081 56 23 W	05-16-89 09-12-89	6.66 21.41
272108081582601	HOLLINGSWORTH WELL 620 NR LIMESTONE, FL	27 21 08 N	081 58 26 W	05-16-89 09-12-89	4.50 33.67
272129081391001	FLINT D. WELL NR CREWSVILLE,FL	27 21 29 N	081 39 10 W	05-17-89 09-13-89	37.99 52.86
272243081374701	VAN ADAMS D. WELL NR CREWSVILLE,FL	27 22 43 N	081 37 47 W	05-17-89 09-13-89	43.85 57.88
272351081474301	GRIFFIN-ZOLFO SPRINGS WELL NO. 723147123 221	27 23 51 N	081 47 43 W	05-16-89 09-12-89	16.12 41.47
272430081450501	HA-21 WELL NR ZOLFO SPRINGS, FL	27 24 30 N	081 45 05 W	05-16-89 09-12-89	23.54 47.50
272433081591801	WHALEY WELL 632 NR LIMESTONE, FL	27 24 33 N	081 59 18 W	05-16-89 09-12-89	18.05 39.26
272442082015201	STEPHENS D. WELL NR ONA,FL NO. 724201132 344	27 24 42 N	082 01 52 W	05-16-89 09-12-89	7.75 31.76
272502081390201	725-J.EATON NO. 414 NR CREWSVILLE	27 25 02 N	081 39 02 W	05-17-89	39.54
272509081410401	MARRLS DP WELL NR GARDNER NO. 411	27 25 09 N	081 41 04 W	05-17-89 09-13-89	30.90 55.22
272620081394901	CARLTON WELL HA-59 NR ZOLFO SPRINGS, FL	27 26 20 N	081 39 49 W	05-17-89 09-13-89	60.96 69.98
272715081401601	WILBUR ROBERTSON WELL NR ZOLFO SPGS, FL NO.124	27 27 15 N	081 40 16 W	05-17-89 09-13-89	38.85 59.35
272855081400701	-PEACE RIVER RANCH NO. 231 NR CREWSVILLE	27 28 55 N	081 40 07 W	05-17-89 09-13-89	42.34 63.29
272917081453901	ANDERSON WELL (HARDEE 601) NO. 442 NR ZOLFO SPGS	27 29 17 N	081 45 39 W	05-16-89 09-13-89	32.91 55.70
272944081474001	CTY OF ZOLFO SPGS D. WELL AT ZOLFO SPGS. NO. 242	27 29 44 N	081 47 40 W	05-17-89	26.19
273103081363701	SMITH DP WELL NO. 731136344 333 NR LEMON GROVE	27 31 03 N	081 36 37 W	05-17-89 09-13-89	50.33 70.29
273108081461301	W.D. BOND WELL HA-89 NO. 323 NR WAUCHULA	27 31 08 N	081 46 13 W	05-16-89 09-13-89	30.20 53.40
273109081541301	DOYLE CARLTON WELL 22 NR WAUCHULA, FL	27 31 09 N	081 54 13 W	05-16-89 09-12-89	98.72 101.48
273145081433601	RICHARDSON WELL 616 NR WAUCHULA, FL	27 31 45 N	081 43 36 W	05-16-89 09-13-89	30.54 59.82
273331081414601	TROGDEN WELL NR ZOLFO SPRINGS	27 33 31 N	081 41 46 W	05-17-89 09-13-89	43.15 66.16
273424081582501	CF IND D WELL LF1 NR FT GREEN	27 34 24 N	081 58 25 W	10-11-88 05-16-89 09-11-89	51.84 25.25 45.97
273426081513401	CF IND D WELL LF6 NR FT GREEN	27 34 26 N	081 51 34 W	05-16-89 09-11-89	37.63 54.75
273427081513401	C.F. INDUSTRIES WELL UF-6 NR WAUCHULA, FL	27 34 27 N	081 51 34 W	05-16-89 09-11-89	52.50 67.32
273435081444001	W.B. GEIGER WELL NR WAUCHULA, FL	27 34 35 N	081 44 40 W	05-16-89 09-13-89	37.08 58.11
273452082010201	CF IND D WELL LF4 NR FT GREEN	27 34 52 N	082 01 02 W	05-16-89 09-11-89	21.21 43.62
273458081342601	SHEARER D. WELL NR LEMON GROVE NO.141	27 34 58 N	081 34 26 W	05-17-89 09-13-89	63.87 76.66
273543081590301	NO. 735159242 143 NR FT GREEN	27 35 43 N	081 59 03 W	05-16-89	38.59
273555081403001	JOHN WHITE WELL 627 NR WAUCHULA, FL	27 35 55 N	081 40 30 W	05-17-89 09-13-89	76.34 87.38

STATION NUMBER	STATION NAME	LAT-I-TUDE	LONG-I-TUDE	DATE	ELEV-ATION ABOVE NGVD (FEET)
	HARDEE COUNTY				
273650081574001	AGRICO WELL 1 NR FT. GREEN, FL	27 36 50 N	081 57 40 W	05-18-89	72.32
				09-15-89	79.22
273709081593501	AGRICO WELL 2 NR FT. GREEN SPRINGS, FL	27 37 09 N	081 59 35 W	05-18-89	103.95
				09-15-89	106.45
273714081503401	ST. OF FLA. PAYNES CR HIST. SITE(667) NR WAUCHULA	27 37 14 N	081 50 34 W	05-16-89	39.41
				09-12-89	49.57
273813081491201	BRYAN HWTN AT BOWLING GN	27 38 13 N	081 49 12 W	09-12-89	64.63
273829081514901	USS AGRI-CHEM LF-5 NR BOWLING GREEN , FL	27 38 29 N	081 51 49 W	05-16-89	41.18
				09-12-89	55.75
273834081464701	WHITEHURST DP WELL NR BOWLING GRN 738146134 22-	27 38 34 N	081 46 47 W	05-16-89	40.10
				09-12-89	52.34
273845081551001	CF IND DP WELL LF-5 NR FT GREEN , FL	27 38 45 N	081 55 10 W	05-16-89	40.16
				09-11-89	55.10
273845081551201	C.F.INDUSTRIES WELL UF-5 NR FT GREEN, FL	27 38 45 N	081 55 12 W	05-16-89	49.55
				09-11-89	61.35

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	TEMPERATURE WATER (DEG C)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)
HARDEE COUNTY						
272714081545901 ROMP 31-1 AVON PARK WELL NR ONA,FLORIDA (LAT 27 27 14N LONG 081 54 50W)						
OCT 1988						
11...	1230	--	550	25.5	--	11
DEC						
06...	1252	--	530	25.5	--	12
FEB 1989						
14...	1216	--	563	25.0	--	11
APR						
11...	1324	--	550	24.0	--	12
JUN						
06...	0927	--	540	24.0	--	13
AUG						
28...	0930	--	540	26.5	--	12
272714081545902 ROMP 31-2 HAWTHORN WELL NR ONA,FLORIDA (LAT 27 27 14N LONG 081 54 50W)						
OCT 1988						
11...	1219	--	1060	25.0	--	110
DEC						
06...	1239	--	1040	25.0	--	110
FEB 1989						
14...	1218	--	1110	24.0	--	110
APR						
11...	1256	--	1060	24.5	--	120
JUN						
06...	0942	--	1040	25.0	--	110
AUG						
28...	0914	--	1050	25.5	--	110
29...	0940	350	1080	24.5	100	110
29...	1120	350	1080	24.5	100	110

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE AIR (DEG C)	TEMPER-ATURE WATER (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
HARDEE COUNTY											
273711081570101 CFI-SP-1 DP NR FT. GREEN, FL (LAT 27 37 11N LONG 081 57 01W)											
APR 1989											
12...	1420	--	545	7.08	--	24.5	--	--	--	--	--
MAY											
10...	1335	--	530	7.01	--	26.0	--	--	--	--	--
JUN											
09...	0900	--	502	6.96	--	25.0	--	--	--	--	--
JUL											
14...	1330	14.18	499	7.27	--	26.0	--	--	--	--	--
AUG											
14...	1605	--	--	--	--	24.0	--	--	--	--	--
SEP											
06...	1300	--	441	6.98	--	28.0	--	--	--	--	--
273723081570601 CFI-01 SH 1 NR FT GREEN, FL (LAT 27 37 23N LONG 081 57 06W)											
NOV 1989											
30...	1100	8.44	663	--	32.5	24.5	5	290	64	32	7.1
APR 1989											
12...	1500	13.43	730	6.94	--	24.5	--	--	--	--	--
MAY											
10...	1428	--	600	6.62	--	26.5	--	--	--	--	--
JUN											
09...	1015	--	705	6.69	--	28.0	--	--	--	--	--
JUL											
12...	1430	12.90	730	6.82	--	28.0	--	--	--	--	--
AUG											
14...	1547	--	--	--	--	--	--	--	--	--	--
SEP											
06...	1340	--	656	6.58	--	30.0	--	--	--	--	--
273801081540201 CFI-C3 SH 1 NR FT GREEN, FL (LAT 27 38 01N LONG 081 54 02W)											
NOV 1988											
29...	1030	2.19	101	--	22.0	23.0	5	11	2.2	1.3	7.9
APR 1989											
07...	1459	--	85	5.33	--	23.0	--	--	--	--	--
MAY											
11...	1340	--	78	5.24	--	25.5	--	--	--	--	--
JUN											
09...	1225	--	80	5.59	--	30.0	--	--	--	--	--
JUL											
18...	1200	--	--	--	--	--	--	--	--	--	--
AUG											
11...	1341	--	85	5.42	--	31.0	--	--	--	--	--
SEP											
06...	1545	--	93	5.43	--	30.5	--	--	--	--	--
273810081540201 CFI-C3 HAWTHORN NR FT GREEN, FL (LAT 27 38 10N LONG 081 54 02W)											
APR 1989											
07...	1545	--	683	8.14	--	22.5	--	--	--	--	--
MAY											
11...	1300	--	435	8.10	--	25.0	--	--	--	--	--
JUN											
09...	1300	--	355	8.90	--	26.0	--	--	--	--	--
JUL											
18...	0930	--	--	--	--	--	--	--	--	--	--
AUG											
11...	1500	--	455	8.34	--	26.0	--	--	--	--	--
SEP											
06...	1640	--	380	8.73	--	25.0	--	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	IODIDE, DIS-SOLVED (MG/L AS I)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)
HARDEE COUNTY											
273711081570101 CFI-SP-1 DP NR FT. GREEN, FL (LAT 27 37 11N LONG 081 57 01W)											
APR 1989											
12...	--	--	--	16	6.5	--	--	--	316	--	--
MAY											
10...	--	--	--	19	6.6	--	--	--	285	--	--
JUN											
09...	--	--	--	13	6.6	--	--	--	280	--	--
JUL											
14...	--	--	--	15	7.4	--	--	--	274	--	--
AUG											
14...	--	--	--	25	8.1	--	--	--	249	--	--
SEP											
06...	--	--	--	8.2	6.2	--	--	--	307	--	--
273723081570601 CFI-01 SH 1 NR FT GREEN, FL (LAT 27 37 23N LONG 081 57 06W)											
NOV 1988											
30...	5	0.2	1.2	1.7	4.6	1.6	--	8.0	330	294	<0.010
APR 1989											
12...	--	--	--	0.70	8.0	--	--	--	327	--	--
MAY											
10...	--	--	--	0.40	5.7	--	--	--	317	--	--
JUN											
09...	--	--	--	0.80	5.2	--	--	--	316	--	--
JUL											
12...	--	--	--	2.2	5.2	--	--	--	304	--	--
AUG											
14...	--	--	--	0.20	5.5	--	--	--	305	--	--
SEP											
06...	--	--	--	0.90	5.3	--	--	--	310	--	--
273801081540201 CFI-C3 SH 1 NR FT GREEN, FL (LAT 27 38 01N LONG 081 54 02W)											
NOV 1988											
29...	61	1	0.10	6.5	18	0.20	0.023	5.3	69	46	<0.010
APR 1989											
07...	--	--	--	8.5	14	--	--	--	60	--	--
MAY											
11...	--	--	--	9.0	11	--	--	--	41	--	--
JUN											
09...	--	--	--	9.7	10	--	--	--	40	--	--
JUL											
18...	--	--	--	11	11	--	--	--	52	--	--
AUG											
11...	--	--	--	12	7.1	--	--	--	49	--	--
SEP											
06...	--	--	--	13	6.5	--	--	--	56	--	--
273810081540201 CFI-C3 HAWTHORN NR FT GREEN, FL (LAT 27 38 10N LONG 081 54 02W)											
APR 1989											
07...	--	--	--	8.5	16	--	--	--	289	--	--
MAY											
11...	--	--	--	6.3	13	--	--	--	263	--	--
JUN											
09...	--	--	--	4.9	12	--	--	--	260	--	--
JUL											
18...	--	--	--	3.7	12	--	--	--	277	--	--
AUG											
11...	--	--	--	3.7	12	--	--	--	274	--	--
SEP											
06...	--	--	--	3.4	13	--	--	--	270	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHOROUS TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	PHOSPHOROUS ORTHO, DISSOLVED (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)
HARDEE COUNTY											
273711081570101 CFI-SP-1 DP NR FT. GREEN, FL (LAT 27 37 11N LONG 081 57 01W)											
APR 1989											
12...	--	--	--	--	--	--	--	0.090	--	--	--
MAY											
10...	--	--	--	--	--	--	--	0.050	--	--	--
JUN											
09...	--	--	--	--	--	--	--	0.010	--	--	--
JUL											
14...	--	--	--	--	--	--	--	0.020	--	--	--
AUG											
14...	--	--	--	--	--	--	--	0.100	--	--	--
SEP											
06...	--	--	--	--	--	--	--	--	--	--	--
273723081570601 CFI-01 SH 1 NR FT GREEN, FL (LAT 27 37 23N LONG 081 57 06W)											
NOV 1988											
30...	<0.020	<0.020	7.00	1.5	8.5	1.00	0.010	<0.010	2	2	6
APR 1989											
12...	--	--	--	--	--	--	--	<0.010	--	--	--
MAY											
10...	--	--	--	--	--	--	--	0.010	--	--	--
JUN											
09...	--	--	--	--	--	--	--	<0.010	--	--	--
JUL											
12...	--	--	--	--	--	--	--	0.010	--	--	--
AUG											
14...	--	--	--	--	--	--	--	<0.010	--	--	--
SEP											
06...	--	--	--	--	--	--	--	<0.020	--	--	--
273801081540201 CFI-C3 SH 1 NR FT GREEN, FL (LAT 27 38 01N LONG 081 54 02W)											
NOV 1988											
29...	<0.020	0.030	0.060	0.25	0.31	4.20	0.150	0.180	1	<1	10
APR 1989											
07...	--	--	--	--	--	--	--	0.590	--	--	--
MAY											
11...	--	--	--	--	--	--	--	0.410	--	--	--
JUN											
09...	--	--	--	--	--	--	--	0.410	--	--	--
JUL											
18...	--	--	--	--	--	--	--	0.490	--	--	--
AUG											
11...	--	--	--	--	--	--	--	0.720	--	--	--
SEP											
06...	--	--	--	--	--	--	--	0.710	--	--	--
273810081540201 CFI-C3 HAWTHORN NR FT GREEN, FL (LAT 27 38 10N LONG 081 54 02W)											
APR 1989											
07...	--	--	--	--	--	--	--	0.080	--	--	--
MAY											
11...	--	--	--	--	--	--	--	0.080	--	--	--
JUN											
09...	--	--	--	--	--	--	--	0.080	--	--	--
JUL											
18...	--	--	--	--	--	--	--	0.090	--	--	--
AUG											
11...	--	--	--	--	--	--	--	0.090	--	--	--
SEP											
06...	--	--	--	--	--	--	--	0.090	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, TOTAL RECOVERABLE (UG/L AS B)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)
HARDEE COUNTY											
273723081570601 CFI-01 SH 1 NR FT GREEN, FL (LAT 27 37 23N LONG 081 57 06W)											
NOV 1988 30...	<10	<0.5	40	20	<1	<1	<5	<1	6	1	<10
273801081540201 CFI-C3 SH 1 NR FT GREEN, FL (LAT 27 38 01N LONG 081 54 02W)											
NOV 1988 29...	<10	<0.5	30	10	1	<1	<5	1	<3	2	<10

DATE	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)
273723081570601 CFI-01 SH 1 NR FT GREEN, FL (LAT 27 37 23N LONG 081 57 06W)											
NOV 1988 30...	10000	13000	<5	<10	7	120	140	<0.10	0.2	<10	<10
273801081540201 CFI-C3 SH 1 NR FT GREEN, FL (LAT 27 38 01N LONG 081 54 02W)											
NOV 1988 29...	3300	3400	<5	<10	<4	20	19	<0.10	<0.1	<10	<10

DATE	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L)	URANIUM -238 WATER DISSOLV (PCI/L)	URANIUM -234 WATER DISSOLV (PCI/L)
273723081570601 CFI-01 SH 1 NR FT GREEN, FL (LAT 27 37 23N LONG 081 57 06W)											
NOV 1988 30...	<1.0	100	<6	<10	13	4.7	2.3	1.8	1.4	<0.10	<0.10
273801081540201 CFI-C3 SH 1 NR FT GREEN, FL (LAT 27 38 01N LONG 081 54 02W)											
NOV 1988 29...	<1.0	50	<6	10	21	55	5.0	4.6	0.91	<0.10	<0.10

KEY TO SITE LOCATIONS ON FIGURE 20

HERNANDO COUNTY

INDEX NUMBER	SITE NUMBER	PAGE NUMBER
1	282605082345801	77
2	282613082381701	77
2	282613082381702	78
2	282613082381703	78
3	282636082221401	79
3	282636082221402	79
4	282659082391101	80
4	282659082391102	80
5	282742082375901	81
6	282851082271601	81
7	283201082315601	82
8	283243082365701	82
9	283313082350101	83
10	283321082241601	83
11	283632082245101	84
12	283650082313301	84
13	283924082272301	85

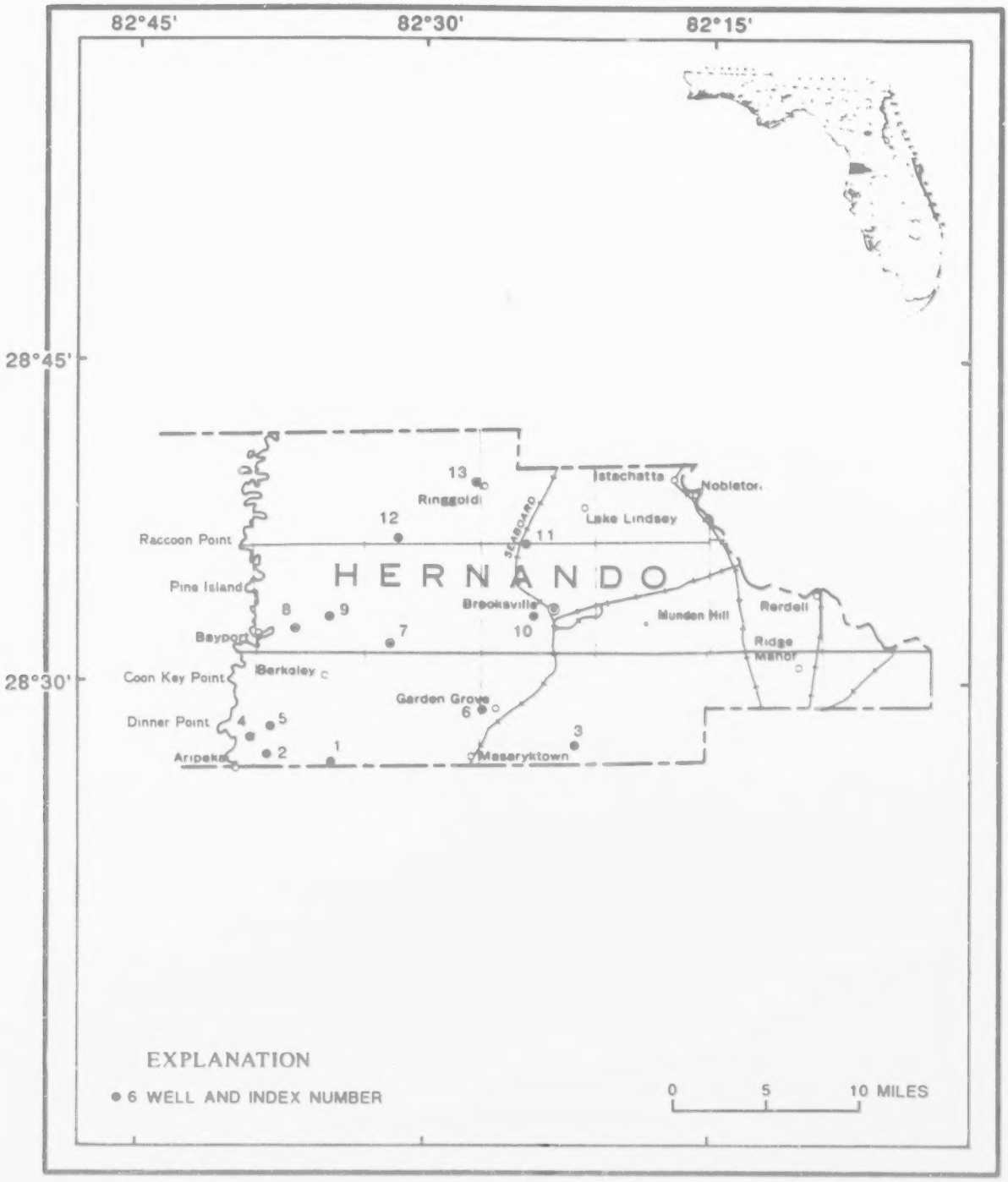

Figure 20.--Location of wells in Hernando County.

HERNANDO COUNTY

WELL NUMBER.--282605082345801. ROMP 97 Deep Well near Aripeka, FL.

LOCATION.--Lat 28°26'05", long 82°34'58", in SW¼SW¼ sec.35, T.23 S., R.17 E., Hydrologic Unit 03100207, 300 ft north of State Highway 578, 3.5 mi east of U. S. Highway 19, and 5.0 mi east of Aripeka. Owner: Southwest Florida Water Management District.

AQUIFER.--Avon Park formation of Eocene Age, Geologic Unit 124 AVPK.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 355 ft, cased to 310 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 32.54 ft (corrected) above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.65 ft (corrected) above land-surface datum.

REMARKS.--Well also sampled for water quality.

PERIOD OF RECORD.--June 1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 25.77 ft NGVD, Aug. 27, 1984; lowest, 13.82 ft NGVD, July 16, 1981.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	23.73	22.77	23.14	22.31	21.71	21.13	20.25	19.51	18.55	19.45	19.46	19.19
10	23.62	22.59	22.96	22.17	21.61	21.04	20.09	19.43	18.79	19.50	19.37	19.14
15	23.44	22.41	22.98	22.01	21.49	20.87	20.08	19.28	18.73	19.45	19.46	19.00
20	23.25	22.25	22.82	21.89	21.31	20.69	19.99	19.05	18.58	19.37	19.34	18.93
25	23.09	23.14	22.63	22.04	21.28	20.57	19.80	18.88	18.85	19.46	19.22	18.95
EOM	22.84	23.23	22.44	21.85	21.20	20.39	19.63	18.70	19.12	19.45	19.23	18.93
MAX	23.80	23.23	23.21	22.41	21.81	21.20	20.37	19.63	19.12	19.52	19.48	19.24

CAL YR 1988 MAX 24.50
WTR YR 1989 MAX 23.80

WELL NUMBER.--282613082381701. ROMP TR 18-3 FLRD Well near Aripeka, FL. (Formerly published as ROMP TR 18-3 Lower Avon Park Well near Aripeka)

LOCATION.--Lat 28°26'13", long 82°38'17", in SW¼SE¼ sec.31, T.23 S., R.17 E., Hydrologic Unit 03100207, 300 ft east of U. S. Highway 19, and 1.7 mi northeast of Aripeka. Owner: Southwest Florida Water Management District.

AQUIFER.--Floridan aquifer system of the Tertiary System (corrected), Geologic Unit 120 FLRD (corrected).

WELL CHARACTERISTICS (corrected).--Drilled, observation well, diameter 16 in., depth 378 ft, cased to 58 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 20.77 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 0.80 ft above land-surface datum.

PERIOD OF RECORD.--October 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 15.36 ft NGVD, Sept. 10, 15, 1988; lowest, 11.58 ft NGVD, July 6, 18, 19, 1988.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	14.61	14.25	14.28	13.96	13.73	13.49	13.01	12.79	12.31	12.99	12.98	12.93
10	14.53	13.96	14.30	13.88	13.53	13.30	12.89	12.64	12.48	12.92	12.84	12.88
15	14.41	13.82	14.24	13.73	13.47	13.25	12.99	12.51	12.45	12.93	12.96	12.87
20	14.32	13.81	14.19	13.67	13.43	13.17	12.90	12.44	12.41	12.95	12.78	12.64
25	14.34	14.49	14.12	13.84	13.35	13.11	12.76	12.31	12.38	12.93	12.73	12.79
EOM	14.05	14.41	13.95	13.75	13.37	13.07	12.68	12.22	12.87	13.08	12.96	12.79
MAX	14.75	14.63	14.44	13.96	13.75	13.52	13.02	12.89	12.87	13.08	13.07	13.05

CAL YR 1988 MAX 15.36
WTR YR 1989 MAX 14.75

HERNANDO COUNTY

WELL NUMBER.--282613082381702. ROMP TR 18-3 Upper Avon Park Well near Aripeka, FL.

LOCATION.--Lat 28°26'13", long 82°38'17", in SW¼SE¼ sec.31, T.23 S., R.17 E., Hydrologic Unit 03100207, 300 ft east of U. S. Highway 19, and 1.7 mi northeast of Aripeka. Owner: Southwest Florida Water Management District.

AQUIFER.--Avon Park formation of Eocene Age, Geologic Unit 124 AVPK.

WELL CHARACTERISTICS.--Drilled, observation well, diameter 4 to 3 in., depth 510 ft, cased to 480 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 20.96 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of adaptor (corrected), 1.94 ft above land-surface datum.

REMARKS.--Well also sampled for water quality.

PERIOD OF RECORD.--April 1988 to current year (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.97 ft NGVD, Oct. 13, 1988; lowest measured, 11.55 ft NGVD, Aug. 16, 1988.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			APR		
13...	0901	13.97	17...	1155	12.70
DEC			JUN		
16...	1156	13.84	16...	1023	12.19
FEB			AUG		
17...	1137	13.10	11...	1003	12.55

WELL NUMBER.--282613082381703. ROMP TR 18-3 NRSD Well near Aripeka, FL.

LOCATION.--Lat 28°26'13", long 82°38'17", in SW¼SE¼ sec.31, T.23 S., R.17 E., Hydrologic Unit 03100207, 300 ft east of U. S. Highway 19, and 1.7 mi northeast of Aripeka. Owner: Southwest Florida Water Management District.

AQUIFER.--Surficial aquifer system of Quaternary Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-level well, diameter 6 in., depth 10 ft, cased to 7 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 20.88 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of male adaptor, 2.80 ft above land-surface datum.

PERIOD OF RECORD.--October 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 16.46 ft NGVD, Sept. 9, 1988; lowest, 11.61 ft NGVD, July 18, 1988.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	15.18	14.35	14.71	14.20	14.02	13.74	13.16	12.82	12.33	13.24	13.61	13.62
10	14.99	14.21	14.60	14.09	13.88	13.62	13.04	12.90	12.82	13.35	13.43	13.55
15	14.83	14.10	14.70	13.99	13.77	13.53	13.30	12.78	12.73	13.28	13.37	13.36
20	14.69	13.99	14.54	13.89	13.70	13.45	13.09	12.66	12.58	13.21	13.23	13.19
25	14.56	15.06	14.44	14.26	13.66	13.37	12.94	12.56	12.61	13.42	13.23	13.29
EOM	14.40	14.87	14.31	14.13	13.62	13.27	12.86	12.44	13.36	13.61	13.57	13.25
MAX	15.28	15.46	14.87	14.39	14.11	13.82	13.32	12.96	13.36	13.61	13.61	13.64

CAL YR 1988 MAX 16.46
WTR YR 1989 MAX 15.46

HERNANDO COUNTY

WELL NUMBER.--282636082221401. Weeki Well 11 near Masaryktown, FL.

LOCATION.--Lat 28°26'36", long 82°22'14", in SW¼NW¼ sec.36, T.23 S., R.19 E., Hydrologic Unit 03100207, 5 ft east of State Highway 581, and 5.3 mi east of Masaryktown. Owner: U. S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 69 ft, cased to 68 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 101.00 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.00 ft above land-surface datum.

REMARKS.--Extremes may have been exceeded during periods of missing record.

PERIOD OF RECORD.--January to December 1967 (bimonthly); January 1968 to current year, incomplete. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 58.74 ft NGVD, Apr. 5, 1970; lowest, 37.67 ft NGVD, Aug. 22, 23, 1981.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	47.80	47.70	48.77	49.06	49.09	48.59	47.77	47.24	45.84	46.33	45.22	44.18
10	48.05	47.72	48.89	48.99	49.01	48.53	47.75	46.96	45.75	46.24	44.88	44.02
15	48.18	47.73	49.02	48.97	48.96	48.35	47.67	46.72	45.62	45.81	44.84	43.86
20	48.10	47.72	49.10	48.92	48.81	48.21	48.08	46.49	45.41	45.44	44.80	43.72
25	47.98	48.20	49.15	49.16	48.64	48.10	47.74	46.27	45.87	45.49	44.55	43.62
EOM	47.73	48.59	49.23	49.30	48.58	47.94	47.57	46.02	46.25	45.42	44.34	43.65
MAX	48.24	48.59	49.23	49.30	49.29	48.63	48.08	47.50	46.25	46.35	45.40	44.32

CAL YR 1988 MAX 49.23
WTR YR 1989 MAX 49.30

WELL NUMBER.--282636082221402. Weeki Shallow Well 11 near Masaryktown, FL.

LOCATION.--Lat 28°26'36", long 82°22'14", in SW¼NW¼ sec.36, T.23 S., R.19 E., Hydrologic Unit 03100207, 5 ft east of State Highway 581, and 5.3 mi east of Masaryktown. Owner: U.S. Geological Survey.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 1.25 in., depth 16 ft, cased to 6 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 100.63 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 4.10 ft above land-surface datum.

PERIOD OF RECORD.--May 1974 to January 1989 (bimonthly), incomplete, (discontinued). Records of water levels prior to October 1977 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 100.06 ft NGVD, Aug. 31, 1981; well observed dry at times some years.

ELEVATION, IN FEET NGVD, OCTOBER 1988 TO JANUARY 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			JAN		
12...	1158	90.37	11...	0858	88.75

HERNANDO COUNTY

WELL NUMBER.--282659082391101. ROMP TR 18-2 Lake City Well near Aripeka, Fl. (Formerly published as ROMP TR 18-2 Avon Park Well)

LOCATION.--Lat 28°26'59", long 82°39'11", in SE¼SE¼ sec.25, T.23 S., R.16 E., Hydrologic Unit 03100207, 650 ft south of State Highway 595, and 1.4 mi northeast of Aripeka. Owner: Southwest Florida Water Management District.

AQUIFER.--Floridan aquifer system of Eocene Age, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS (corrected).--Drilled, observation, artesian well, diameter 3 in., depth 790 ft, cased to 760 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 6.69 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.35 ft above land-surface datum.

REMARKS.--Well also sampled for water quality.

PERIOD OF RECORD.--October 1987 to March 1988; April 1988 to current year (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.77 ft below NGVD, Sept. 22, 1988; lowest measured, 4.41 ft below NGVD, June 24, 1988.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			APR		
13...	1050	-3.27	17...	1514	-3.84
DEC			JUN		
16...	1329	-3.16	16...	1201	-3.95
FEB			AUG		
17...	1459	-3.59	11...	1211	-3.81

WELL NUMBER.--282659082391102. ROMP TR 18-2 Lower Avon Park Well near Aripeka, Fl.

LOCATION.--Lat 28°26'59", long 82°39'11", in SE¼SE¼ sec.25, T.23 S., R.16 E., Hydrologic Unit 03100207, 650 ft south of State Highway 595, and 1.4 mi northeast of Aripeka. Owner: Southwest Florida Water Management District.

AQUIFER.--Avon Park formation of Eocene Age, Geologic Unit 124 AVPK.

WELL CHARACTERISTICS.--Drilled, observation well, diameter 2 in., depth 525 ft, cased to 505 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 6.69 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.27 ft above land-surface datum.

PERIOD OF RECORD.--January 1988 to current year (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.20 ft NGVD, Dec. 16, 1988; lowest measured, 0.47 ft below NGVD, June 16, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
13...	1053	4.91	16...	1650	1.61
DEC			JUN		
16...	1327	5.20	16...	1159	-0.47
FEB			AUG		
17...	1457	1.40	11...	1209	-0.44
APR					
17...	1512	2.15			

HERNANDO COUNTY

WELL NUMBER.--282742082375901. ROMP TR 18-1 Deep Well near Aripeka, FL.

LOCATION.--Lat 28°27'42", long 82°37'59", in NW¼NW¼ sec.29, T.23 S., R.17 E., Hydrologic Unit 03100207, 100 ft south of State Highway 595, 0.7 mi west of U. S. Highway 19, and 3.2 mi northeast of Aripeka. Owner: Southwest Florida Water Management District.

AQUIFER.--Avon Park formation of Eocene Age, Geologic Unit 124 AVPK.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in , depth 580 ft, cased to 445 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 15.29 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.88 ft above land-surface datum.

REMARKS.--Well also sampled for water quality.

PERIOD OF RECORD.--April 1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 17.52 ft NGVD, Sept. 11, 1988; lowest, 11.73 ft NGVD, July 11, 1981.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	16.75	16.37	16.54	16.14	16.03	15.90	15.34	15.05	14.44	15.33	15.38	15.45
10	16.64	16.11	16.48	16.11	15.88	15.69	15.15	14.93	14.97	15.32	15.28	15.39
15	16.48	15.97	16.52	15.99	15.79	15.62	15.48	14.89	14.84	15.25	15.33	15.26
20	16.39	15.97	16.42	15.96	15.76	15.52	15.33	14.72	14.67	15.19	15.23	15.04
25	16.37	16.81	16.35	16.24	15.76	15.49	15.09	14.57	14.84	15.40	15.11	15.35
EOM	16.16	16.66	16.20	16.09	15.72	15.43	15.00	14.53	15.44	15.44	15.37	15.30
MAX	16.87	16.84	16.69	16.35	16.05	15.99	15.48	15.22	15.44	15.53	15.46	15.54

CAL YR 1988 MAX 17.52
WTR YR 1989 MAX 16.87

WELL NUMBEP.--282851082271601. Airport Well near Masaryktown, FL.

LOCATION.--Lat 28°28'51", long 82°27'16", in SE¼SE¼ sec.13, T.23 S., R.18 E., Hydrologic Unit 03100207, 0.2 mi north of Brooksville Airport, and 2.7 mi north of Masaryktown. Owner: City of Brooksville.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused industrial, artesian well, diameter 8 in., depth 251 ft, cased to 80 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 65.66 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1 in. bushing (corrected), 1.15 ft above land-surface datum.

PERIOD OF RECORD.--August 1960 to current year (bimonthly), incomplete. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 61.68 ft NGVD, Oct. 19, 1960; lowest measured, 26.84 ft NGVD, Aug. 31, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
12...	1314	39.96	17...	1056	35.44
JAN			SEP		
11...	0935	38.64	13...	0948	33.22

HERNANDO COUNTY

WELL NUMBER.--283201082315601. Weeki Wachee Well near Weeki Wachee, FL.

LOCATION.--Lat 28°32'01", long 82°31'56", in SW¼SW¼ sec.29, T.22 S., R.18 E., Hydrologic Unit 03100207, 25 ft north of State Highway 50, and 2.6 mi east of Weeki Wachee. Owner: U.S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 259 ft, cased to 176 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 36.49 ft (corrected) above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.08 ft (corrected) above land-surface datum.

REMARKS.--Extremes may have been exceeded during periods of missing record.

PERIOD OF RECORD.--August 1966 to current year, incomplete. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 23.91 ft NGVD, Aug. 27, 28, 1984; lowest, 13.60 ft estimated, NGVD, part or all of each day July 7-16, 1981.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	22.77	21.50	21.09	20.10	19.31	18.63	17.81	17.20	16.40	16.78	17.39	17.46
10	22.56	21.28	20.87	19.94	19.19	18.50	17.68	17.07	16.39	16.81	17.45	17.55
15	22.32	21.08	20.76	19.79	19.02	18.35	17.56	16.94	16.41	16.76	17.57	17.52
20	22.13	20.88	20.62	19.63	18.90	18.22	17.55	16.76	16.35	16.67	17.56	17.47
25	21.91	21.25	20.47	19.60	18.78	18.09	17.44	16.62	16.46	16.95	17.52	17.46
EOM	21.66	21.25	20.28	19.46	18.71	17.92	17.30	16.51	16.60	17.04	17.45	e17.65
MAX	22.83	21.62	21.23	20.26	19.44	18.65	17.88	17.29	16.60	17.04	17.57	17.65

CAL YR 1988 MAX 22.91
WTR YR 1989 MAX 22.83

e Estimated

WELL NUMBER.--283243082365701. ROMP 19-2 Deep Well near Bayport, FL.

LOCATION.--Lat 28°32'43", long 82°36'57", in NE¼NE¼ sec.29, T.22 S., R.17 E., Hydrologic Unit 03100207, 50 ft (corrected) north of State Highway 50, and 3.8 mi east of Bayport. Owner: Southwest Florida Water Management District.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 302 ft, cased to 277 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 6.99 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 2.00 ft above land-surface datum.

REMARKS.--Water levels affected by tidal fluctuations. Extremes may have been exceeded during periods of missing record. Well also sampled for water quality.

PERIOD OF RECORD.--December 1975 to current year, incomplete. Prior to October 1979, published as Whitehurst BM Well near Bayport.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 9.25 ft estimated, NGVD, Sept. 1, 1985; lowest, 4.07 ft NGVD, Mar. 22, 1986

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	5.88	7.42	5.78	6.21	6.13	6.36	6.21	6.80	6.95	6.59	6.18	6.26
10	5.82	6.20	6.39	6.19	5.49	5.45	6.26	6.86	6.16	6.07	6.26	6.25
15	5.83	5.91	5.67	---	5.89	6.38	6.30	6.03	6.43	6.53	6.69	6.55
20	6.44	6.51	6.12	---	5.75	5.91	6.17	6.30	6.78	6.83	6.13	6.15
25	6.92	5.88	6.05	5.52	5.44	6.01	6.24	6.35	6.27	6.05	6.50	6.64
EOM	6.00	5.80	5.96	6.05	6.31	6.51	6.36	6.32	6.82	6.57	6.55	6.38
MAX	6.92	7.42	6.46	---	6.59	6.58	6.58	7.00	7.02	6.83	6.69	6.65

CAL YR 1988 MAX 7.88

HERNANDO COUNTY

WELL NUMBER.--283313082350101. ROMP TR 19-3 Deep Well near Weeki Wachee, FL.

LOCATION.--Lat 28°33'13", long 82°35'01", in NE¼SE¼ sec.22, T.22 S., R.17 E., Hydrologic Unit 03100207, 1.4 mi north of State Highway 50, 1.5 mi northwest (corrected) of Weeki Wachee, and 1.8 mi west of U. S. Highway 19. Owner: Southwest Florida Water Management District.

AQUIFER.--Avon Park formation of Eocene Age, Geologic Unit 124 AVPK.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 603 ft, cased to 440 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 12.24 ft (corrected) above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 5.65 ft (corrected) above land-surface datum.

PERIOD OF RECORD.--August 1980 to current year. Records of water levels prior to October 1980 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 10.96 ft NGVD, Sept. 16, 17, 18, 19, 20, 1988; lowest, 7.65 ft NGVD, June 30, 1981.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	10.49	9.90	9.77	9.46	9.29	9.15	8.85	8.79	8.44	9.02	9.00	9.10
10	10.20	9.85	9.73	9.43	9.23	9.08	8.81	8.70	8.69	9.01	9.01	9.11
15	10.12	9.76	9.70	9.32	9.11	9.03	8.71	8.62	8.67	8.94	9.11	9.09
20	10.05	9.69	9.58	9.26	9.02	9.02	8.83	8.52	8.59	8.89	9.09	9.05
25	10.08	9.86	9.55	9.28	9.09	9.02	8.79	8.46	8.66	9.00	9.06	9.09
EOM	9.94	9.94	9.47	9.30	9.01	8.94	8.76	8.44	8.78	9.01	9.08	9.23
MAX	10.52	9.99	9.92	9.47	9.31	9.17	8.94	8.81	8.78	9.03	9.12	9.23

CAL YR 1988 MAX 10.96
WTR YR 1989 MAX 10.52

WELL NUMBER.--283321082241601. ROMP 105 Deep Well at Brooksville, FL.

LOCATION.--Lat 28°33'21", long 82°24'16", in SW¼SE¼ sec.21, T.22 S., R.19 E., Hydrologic Unit 03100207, 0.1 mi north of State Highway 50, 0.4 mi west of U. S. Highway 98, and 0.8 mi west of Brooksville. Owner: Southwest Florida Water Management District.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation well, diameter 3 in., depth 706 ft, cased to 700 ft.

INSTRUMENTATION.--Monthly measurement with steel tape.

DATUM.--Land-surface datum is 98.42 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District). Measuring point: Top of casing, 2.81 ft above land-surface datum.

REMARKS.--Well also sampled for water quality.

PERIOD OF RECORD.--October 1985 to current year (monthly), incomplete.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 41.08 ft NGVD, Nov. 9, 1988; lowest measured, 34.09 ft NGVD, Nov. 10, 1987.

WATER LEVEL, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
14...	0838	40.96	03...	1100	37.65
NOV			17...	1142	37.30
09...	1104	41.08	JUN		
DEC			07...	1035	36.89
13...	0950	40.84	JUL		
JAN			13...	1135	36.61
11...	1040	40.25	AUG		
FEB			07...	1055	36.36
09...	0905	39.56	SEP		
28...	1320	39.42	14...	1045	36.07
APR					
04...	1015	38.49			

HERNANDO COUNTY

WELL NUMBER.--283632082245101. Seaboard Coast Line Railroad Well near Brooksville, FL.

LOCATION.--Lat 28°36'32", long 82°24'51", in SW¼SW¼ sec.33, T.21 S., R.19 E., Hydrologic Unit 03100208, 0.2 mi south of U. S. Highway 98, and 4.0 mi northwest of Brooksville. Owner: Seaboard Coast Line.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, domestic, artesian well, diameter 6 in., depth 231 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 96.67 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 0.5 in. access pipe, 0.25 ft above land-surface datum. Prior to Jan. 4, 1974, top of access hole, 0.10 ft below land-surface datum.

PERIOD OF RECORD.--August 1960 to September 1977 (monthly); October 1977 to September 1982 (bimonthly); October 1982 to September 1986 (monthly); October 1986 to current year (bimonthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 48.48 ft NGVD, Oct. 7, 1960; lowest measured, 25.18 ft NGVD, Nov. 10, 1987.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
14...	0938	39.63	03...	1140	35.55
NOV			17...	1221	35.26
09...	1453	39.48	JUL		
JAN			13...	1200	34.77
11...	1105	38.35	SEP		
FEB			14...	1110	34.20
28...	1345	37.28			

WELL NUMBER.--283650082313301. ROMP Centralia Deep Well near Weeki Wachee Springs, FL.

LOCATION (corrected).--Lat 28°36'50", long 82°31'33", in SE¼NW¼ sec.32, T.21 S., R.18 E., Hydrologic Unit 03100207, 1.5 mi east of intersection U. S. Highway 19 and State Highway 476, and 7.0 mi north of town of Weeki Wachee Springs. Owner: Southwest Florida Water Management District.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 170 ft, cased to 122 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 39.44 ft (corrected) above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.29 ft (corrected) above land-surface datum.

PERIOD OF RECORD.--December 1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 18.38 ft NGVD, Sept. 22, 1988; lowest, 9.77 ft NGVD, June 12, 13, 1985.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	18.00	16.39	15.28	14.29	e13.45	12.82	e12.00	11.37	10.56	11.54	12.08	12.30
10	17.76	16.10	15.11	14.12	e13.35	12.71	e11.90	11.24	10.57	11.86	12.19	12.28
15	17.47	15.85	14.97	13.96	e13.20	12.60	11.82	11.11	10.52	11.91	12.35	12.18
20	17.21	15.63	14.82	13.81	13.07	12.48	11.75	10.96	10.45	11.86	12.39	12.07
25	16.92	15.58	14.66	13.75	12.93	12.35	11.62	10.81	10.75	11.95	12.36	12.17
EOM	16.61	15.46	14.46	e13.60	12.88	12.21	11.49	10.68	11.09	11.97	12.35	12.29
MAX	18.16	16.57	15.43	14.43	13.55	12.88	12.16	11.47	11.09	11.97	12.39	12.33

CAL YR 1988 MAX 18.38
WTR YR 1989 MAX 18.16

e Estimated

HERNANDO COUNTY

WELL NUMBER.--283924082272301. ROMP 107 Deep Well near Brooksville, FL.

LOCATION.--Lat 28°39'24", Long 82°27'23", in SW¼SE¼ sec.13, T.21 S., R.18 E., Hydrologic Unit 03100207, 75 ft southwest of U. S. Highway 98, and 9.2 mi northwest of Brooksville. Owner: Southwest Florida Water Management District.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 8 in., depth 240 ft, cased to 140 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 116.03 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of nipple, 2.83 ft above land-surface datum.

PERIOD OF RECORD.--April 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 19.78 ft NGVD, Nov. 3, 4, 1982; lowest, 11.60 ft NGVD, July 31, 1981.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	16.73	17.00	16.26	15.43	14.51	13.82	13.15	12.49	11.91	11.78	12.01	11.89
10	16.94	16.81	16.18	15.26	14.38	13.75	13.02	12.41	11.83	11.90	11.97	11.94
15	17.06	16.69	16.07	15.11	14.25	13.64	12.93	12.30	11.80	11.99	11.96	11.96
20	17.13	16.57	15.93	14.95	14.15	13.52	12.82	12.20	11.75	12.02	11.96	11.93
25	17.11	16.43	15.80	14.78	14.00	13.40	12.69	12.09	11.71	12.02	11.94	11.92
EOM	17.07	16.37	15.62	14.64	13.94	13.28	12.61	11.98	11.70	12.02	11.89	11.96
MAX	17.14	17.05	16.34	15.59	14.61	13.99	13.24	12.58	11.96	12.03	12.02	11.96

CAL YR 1988 MAX 17.14
WTR YR 1989 MAX 17.14

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1988 TO SEPTEMBER 1989

STATION NUMBER	STATION NAME	LAT-I-TUDE	LONG-I-TUDE	DATE	ELEV-ATION ABOVE NGVD (FEET)
	HERNANDO COUNTY				
282659082391104	ROMP TR 18-2 (447-480) 1 INCH WELL NR ARIPEKA,FL	28 26 59 N	082 39 11 W	05-16-89	7.44
				09-14-89	8.31
283058082281001	ZIRKELS ESTATES WELL	28 30 58 N	082 28 10 W	05-16-89	25.03
				09-12-89	24.39
283253082322703	WHCWS-MW1-INTER.-NR-WEEKI WACHEE	28 32 53 N	082 32 27 W	05-16-89	23.14
				09-12-89	24.01
283648082275201	COMMUNITY CHURCH WELL	28 36 48 N	082 27 52 W	05-16-89	28.26
				09-12-89	27.43

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

HERNANDO COUNTY

282605082345801 ROMP 97 DEEP WELL NEAR ARIPEKA, FL. (LAT 28 26 05N LONG 082 34 58W)

DATE	TIME	SPECIFIC CONDUCTANCE (US/CM)	TEMPERATURE WATER (DEG C)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)
OCT 1988					
12...	1412	180	24.0	--	3.1
DEC					
16...	1104	160	24.0	--	3.5
FEB 1989					
17...	0950	149	24.0	--	3.0
APR					
17...	1056	152	24.0	--	3.7
MAY					
16...	1105	--	--	--	--
JUN					
15...	1641	148	24.0	--	3.6
AUG					
11...	0929	149	24.0	--	3.7
SEP					
12...	1133	--	--	--	--

282613082381702 ROMP TR18-3 AVPK WELL NR ARIPEKA, FL (LAT 28 26 13N LONG 082 38 17W)

DATE	TIME	SPECIFIC CONDUCTANCE (US/CM)	TEMPERATURE WATER (DEG C)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)
OCT 1988					
13...	0901	230	24.0	--	3.7
DEC					
16...	1156	230	24.0	--	4.3
FEB 1989					
17...	1137	229	24.0	--	4.0
APR					
17...	1155	229	24.0	--	4.1
JUN					
16...	1023	241	24.0	7.3	4.5
AUG					
11...	1003	227	24.0	7.5	4.3

282659082391102 ROMP TR18-2 AVPK WELL NR ARIPEKA, FL (LAT 28 26 59N LONG 082 39 11W)

DATE	TIME	SPECIFIC CONDUCTANCE (US/CM)	TEMPERATURE WATER (DEG C)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)
MAY 1989					
16...	1650	35000	24.5	1900	9000

282742082375901 ROMP TR 18-1 DEEP WELL NEAR ARIPEKA, FL (LAT 28 27 42N LONG 082 37 59W)

DATE	TIME	SPECIFIC CONDUCTANCE (US/CM)	TEMPERATURE WATER (DEG C)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)
OCT 1988					
13...	0952	219	26.0	--	3.7
DEC					
16...	1232	217	26.0	--	4.3
FEB 1989					
17...	1537	221	25.5	--	4.0
APR					
17...	1547	219	25.5	--	4.5
JUN					
16...	1116	219	26.0	7.5	4.3
AUG					
11...	1129	216	26.0	8.0	4.3

283243082365701 ROMP 19-2 DEEP WELL NEAR BAYPORT, FL (LAT 28 32 43N LONG 082 36 57W)

DATE	TIME	SPECIFIC CONDUCTANCE (US/CM)	TEMPERATURE WATER (DEG C)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)
OCT 1988					
13...	1146	5160	24.5	--	1500
NOV					
10...	1040	9000	23.5	--	2800
DEC					
20...	1337	2680	23.5	--	720
JAN 1989					
20...	1342	4240	23.0	--	1200
FEB					
17...	1223	3950	23.5	--	1100
APR					
17...	1247	5260	23.5	--	1500
MAY					
18...	1519	7100	24.0	--	2100
JUN					
16...	1312	10100	23.5	460	3000
JUL					
13...	1234	4240	23.5	--	1200
AUG					
11...	1307	5750	23.5	240	1700
SEP					
14...	1502	4260	24.0	--	1200

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

HERNANDO COUNTY

283321082241601 ROMP DP 105 AT BROOKSVILLE, FL (LAT 28 33 21N LONG 082 24 16W)

DATE	TIME	SPECIFIC CONDUCTANCE (US/CM)	TEMPERATURE WATER (DEG C)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)
OCT 1988							
14...	0838	2690	21.5	--	--	--	--
NOV							
09...	1104	2680	22.0	--	--	--	--
DEC							
13...	0950	2670	21.0	--	--	--	--
JAN 1989							
11...	1040	2600	22.0	--	--	--	--
FEB							
09...	0905	2700	18.0	--	--	--	--
28...	1320	2700	22.5	--	--	--	--
APR							
04...	1015	2710	22.0	--	--	--	--
MAY							
03...	1100	2670	21.0	510	130	17	4.3
17...	1142	--	--	--	--	--	--
JUN							
07...	1035	2680	23.0	--	--	--	--
JUL							
13...	1135	2650	23.5	--	--	--	--
AUG							
07...	1055	2690	23.5	--	--	--	--
SEP							
14...	1045	2750	23.0	--	--	--	--

283321082241601 ROMP DP 105 AT BROOKSVILLE, FL (LAT 28 33 21N LONG 082 24 16W)

DATE	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	STRONTIUM, DISSOLVED (UG/L AS SR)
OCT 1988						
14...	1900	23	--	--	--	--
NOV						
09...	1800	22	--	--	--	--
DEC						
13...	--	22	--	--	--	--
JAN 1989						
11...	--	22	--	--	--	--
FEB						
09...	--	20	--	--	--	--
28...	--	21	--	--	--	--
APR						
04...	--	25	--	--	--	--
MAY						
03...	1800	20	1.7	0.50	2780	11000
17...	--	--	--	--	--	--
JUN						
07...	--	21	--	--	--	--
JUL						
13...	--	21	--	--	--	--
AUG						
07...	--	23	--	--	--	--
SEP						
14...	--	21	--	--	--	--

KEY TO SITE LOCATIONS ON FIGURE 21

HIGHLANDS COUNTY

INDEX NUMBER	SITE NUMBER	PAGE NUMBER
1	271226081194301	91
2	271559081202301	92
2	271559081202302	92
3	271559081242501	93
4	273615081284901	93

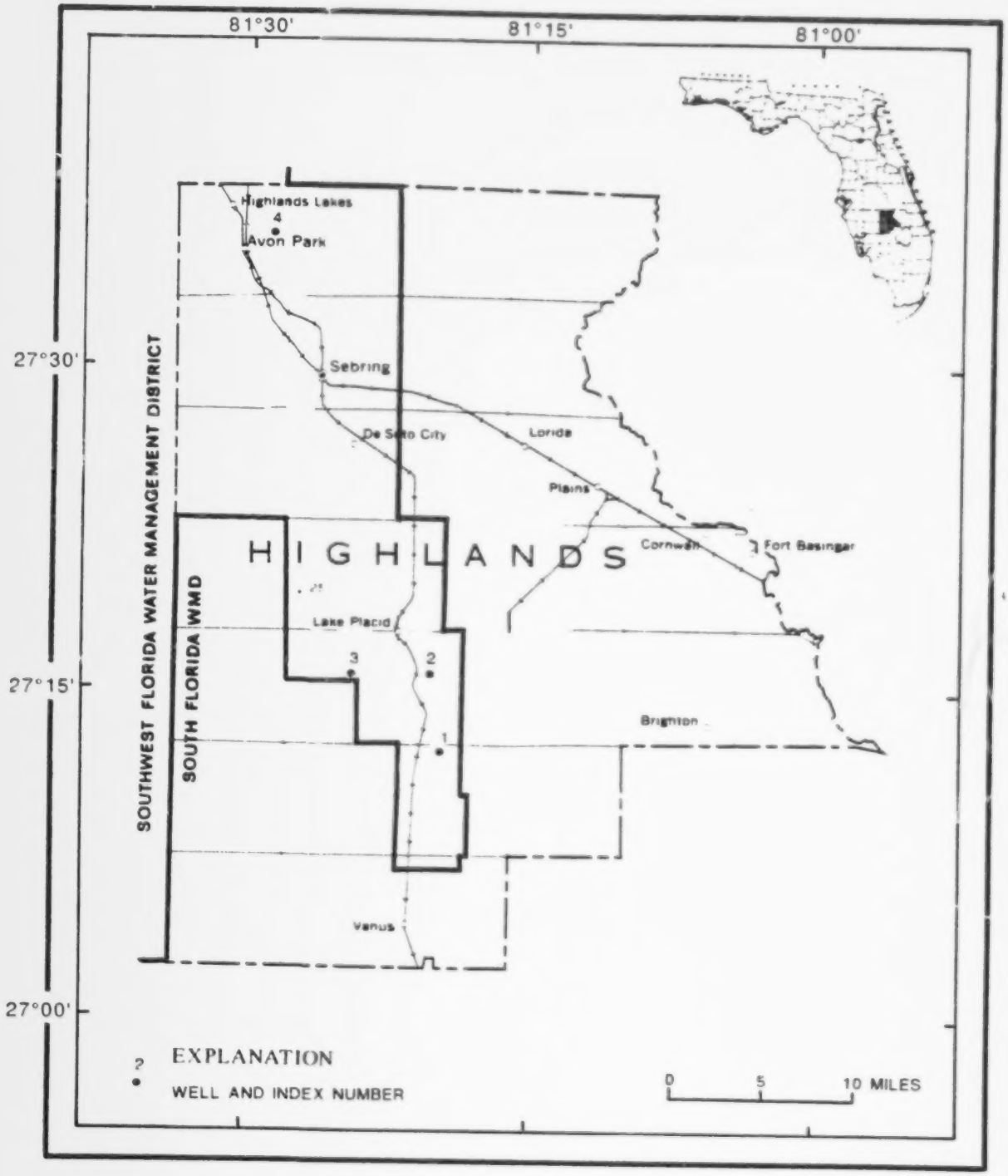

Figure 21.--Location of wells in Highlands County.

HIGHLANDS COUNTY

WELL NUMBER.--271226081194301. Bairs Den Well near Lake Placid, FL.

LOCATION.--Lat 27°12'26", long 81°19'43", in NE¼NW¼ sec.4, T.38 S., R.30 E., Hydrologic Unit 03090101, 600 ft south of intersection State Highway 70 and U. S. Highway 27, and 6.9 mi south of Lake Placid. Owner: U. S. Geological Survey.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, nonartesian well, diameter 6 in., depth 35 ft, cased to 28 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 136.01 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.40 ft above land-surface datum. Prior to Jan. 14, 1981, top of casing, 3.30 ft above land-surface datum.

REMARKS.--The figures of water level as elevation in feet NGVD prior to Oct. 1, 1977, are in error. Revised records are available in files of the Geological Survey.

PERIOD OF RECORD.--September 1948 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey. Prior to October 1979, published as Observation Well H14A near Lake Placid.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 128.49 ft NGVD, Oct. 2, 1979; lowest, 113.93 ft NGVD, May 28-30, 1977.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	121.70	121.62	121.14	120.76	120.37	120.03	e119.76	119.57	119.23	119.12	119.39	120.90
10	121.75	121.73	121.04	120.67	120.27	120.06	e119.69	119.53	119.14	119.34	119.42	121.28
15	121.62	121.59	121.00	120.56	120.22	120.07	119.63	119.45	119.06	119.43	119.99	121.44
20	121.50	121.38	120.96	120.48	120.18	120.02	119.69	119.37	118.97	119.43	120.50	121.33
25	121.37	121.31	120.95	120.49	120.05	e119.93	119.73	119.31	118.95	119.44	120.55	121.19
EOM	121.33	121.22	120.83	120.43	119.98	e119.84	119.61	119.26	118.94	119.47	120.65	121.13
MAX	121.75	121.73	121.20	120.82	120.41	120.07	119.82	119.62	119.26	119.47	120.65	121.44

CAL YR 1988 MAX 121.88
WTR YR 1989 MAX 121.75

e Estimated

HIGHLANDS COUNTY

WELL NUMBER.--271559081202301. ROMP 28 Floridan Well near Lake Placid, FL.

LOCATION.--Lat 27°15'59", long 81°20'23", in NE¼NW¼ sec.17, T.37 S., R.30 E., Hydrologic Unit 03090101, 0.5 mi east of U. S. Highway 27, and 2.0 mi south of Lake Placid. Owner: Southwest Florida Water Management District.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 8 in., depth 1,385 ft, cased to 585 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 104.63 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 4.01 ft above land-surface datum.

PERIOD OF RECORD.--July 1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 73.37 ft NGVD, July 30, 1984; lowest, 62.32 ft NGVD, June 25, 1987.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	68.00	66.08	67.34	67.98	67.35	66.32	64.69	63.92	63.74	68.57	67.13	e70.40
10	68.37	67.80	66.14	67.34	65.95	68.30	65.12	63.19	62.51	68.78	67.35	e70.60
15	65.42	67.35	68.16	66.62	66.20	68.90	65.00	63.67	62.44	66.76	68.41	66.62
20	63.94	66.85	65.67	64.96	66.21	68.58	67.37	63.42	64.49	66.14	69.37	67.47
25	65.53	68.03	67.02	67.76	65.19	67.11	67.94	63.60	66.27	67.23	e69.40	68.68
EOM	65.70	67.25	67.25	68.28	65.09	65.47	65.14	63.68	67.23	67.37	e69.30	69.34
MAX	68.37	68.81	68.16	68.75	67.51	68.90	68.01	65.28	67.23	68.78	70.00	70.60

CAL YR 1988 MAX 71.30
WTR YR 1989 MAX 70.60

e Estimated

WELL NUMBER.--271559081202302. ROMP 28 Shallow Well near Lake Placid, FL.

LOCATION.--Lat 27°15'59", long 81°20'23", in NE¼NW¼ sec.17, T.37 S., R.30 E., Hydrologic Unit 03090101, 0.5 mi east of U S. Highway 27, and 2.0 mi south of Lake Placid. Owner: Southwest Florida Water Management District

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 60 ft, cased to 50 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 104.63 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 4.16 ft above land-surface datum.

REMARKS.--Extremes may have been exceeded during periods of missing record.

PERIOD OF RECORD.--July 1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 89.73 ft NGVD, observed Aug. 18, 1989; lowest, 86.23 ft NGVD, June 20, 1989.

ELEVATION (FEET NGVD) WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	87.62	87.55	87.37	87.18	87.12	86.98	86.81	86.92	86.51	87.80	e87.74	88.91
10	87.63	87.58	87.31	87.17	87.08	87.03	86.76	86.81	86.40	87.90	e87.79	88.80
15	87.51	87.53	87.32	87.14	87.04	87.00	86.71	86.73	86.30	87.68	e88.60	88.70
20	87.42	87.46	87.30	87.11	87.00	86.94	87.11	86.76	86.23	87.52	e89.61	88.61
25	87.35	87.43	87.26	87.22	86.98	86.91	87.12	86.70	86.71	87.52	89.28	88.57
EOM	87.27	87.40	87.23	87.19	86.97	86.85	87.01	86.61	87.26	87.72	89.03	88.54
MAX	87.63	87.58	87.39	87.22	87.18	87.03	87.12	87.00	87.26	87.90	89.73	88.99

CAL YR 1988 MAX 88.26
WTR YR 1989 MAX 89.73

e Estimated

HIGHLANDS COUNTY

WELL NUMBER.--271559081242501. Lake Groves Road Well near Lake Placid, FL.

LOCATION.--Lat 27°15'59", long 81°24'25", in NW¼NE¼ sec.15, T.37 S., R.29 E., Hydrologic Unit 03090101, on south side of Lake Groves Road, 0.5 mi west of Jefferson Avenue, and 4.0 mi southwest of Lake Placid. Owner: U.S. Geological Survey.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, nonartesian well, diameter 6 in., depth 23 ft, cased to 13 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 115.56 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 2.30 ft above land-surface datum.

PERIOD OF RECORD.--February 1956 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey. Prior to October 1979, published as Observation Well H440A near Lake Placid.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 115.68 ft NGVD, Sept. 10, 1960; lowest, 106.91 ft NGVD, May 14, 1975.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	111.51	111.57	110.74	110.34	110.05	110.43	110.00	110.01	109.45	110.77	111.11	111.73
10	111.38	111.42	110.67	110.26	109.97	110.54	109.90	109.89	109.37	110.73	111.01	111.47
15	111.26	111.21	110.65	110.17	109.91	110.55	110.27	109.99	109.20	110.55	112.33	111.34
20	111.13	111.03	110.57	110.10	109.82	110.54	110.50	109.78	109.19	110.83	111.97	111.60
25	111.01	110.94	110.51	110.30	109.77	110.28	110.39	109.68	109.20	111.04	111.83	112.58
EOM	110.86	110.83	110.43	110.21	109.74	110.10	110.18	109.55	109.86	110.93	111.60	112.43
MAX	111.52	111.57	110.81	110.41	110.18	110.55	110.50	110.14	109.86	111.04	112.35	112.61

CAL YR 1988 MAX 112.54
WTR YR 1989 MAX 112.61

e Estimated

WELL NUMBER.--273615081284901. ROMP 43 Floridan Well near Avon Park, FL.

LOCATION.--Lat 27°36'15", long 81°28'49", in SW¼SW¼ sec.13, T.33 S., R.28 E., Hydrologic Unit 03090101, 500 ft east of State Highway 17A, and 2.3 mi northeast of Avon Park. Owner: Southwest Florida Water Management District.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 8 in., depth 1,363 ft, cased to 409 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 148.28 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 5.50 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby irrigation wells.

PERIOD OF RECORD.--July 1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 94.26 ft NGVD, Sept. 25, 26, 1983; lowest, 73.61 ft NGVD, May 9, 1986.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	88.84	85.48	89.02	82.25	85.94	84.76	80.79	78.42	80.65	86.11	85.54	88.12
10	89.62	85.93	85.84	84.39	83.27	86.17	80.48	76.16	83.02	85.52	85.55	88.09
15	83.07	84.63	88.64	85.22	82.14	85.07	80.96	80.70	82.50	85.67	87.16	84.09
20	79.69	85.35	87.25	82.37	83.64	84.81	82.68	77.16	83.68	85.56	86.87	86.89
25	83.53	87.98	88.41	87.36	79.01	81.85	82.50	75.57	84.87	86.25	86.97	88.06
EOM	84.00	88.67	84.53	87.73	81.53	79.15	80.35	77.54	85.22	86.52	86.95	87.81
MAX	89.62	88.67	89.02	88.15	86.33	86.66	84.84	81.51	85.22	86.52	87.63	88.29

CAL YR 1988 MAX 91.49
WTR YR 1989 MAX 89.62

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1988 TO SEPTEMBER 1989

STATION NUMBER	STATION NAME	LAT-I-TUDE	LONG-I-TUDE	DATE	ELEV-ATION ABOVE NGVD (FEET)
	HIGHLANDS COUNTY				
271223081202601	LK PLACID GVES DP S/O LK PLACID, FL	27 12 23 N	081 20 26 W	05-17-89 09-13-89	46.27 50.71
272016081190701	CLYDE PATTERSON WELL 19 NR LAKE PLACID, FL	27 20 16 N	081 19 07 W	05-17-89 09-13-89	51.75 53.25
272652081311501	PRAIRIE OAKS GOLF CLUB WELL NR SEBRING, FL	27 26 52 N	081 31 15 W	05-17-89 09-13-89	62.48 74.01
273007081263901	CTY SEBRING DP 24 AT SEBRING	27 30 07 N	081 26 39 W	05-18-89	75.09
273054081234701	JOHN MC CULLOCH WELL 11 NR SEBRING, FL	27 30 54 N	081 23 47 W	05-18-89 09-14-89	78.28 87.81
273252081264101	BONNET LK DEEP NR SEBRNG	27 32 52 N	081 26 41 W	05-18-89 09-14-89	77.79 81.58
273353081294201	FLOYD DEVANE WELL 18 NR AVON PARK, FL	27 33 53 N	081 29 42 W	05-18-89 09-14-89	74.51 84.05
273704081245501	ROBERT RICHARDS WELL 25 NR AVON PARK, FL	27 37 04 N	081 24 55 W	05-18-89 09-14-89	73.74 75.18
273725081305301	DR. PENA (DWANE KOPPA) WELL 12 NR AVON PARK, FL	27 37 25 N	081 30 53 W	05-18-89 09-14-89	61.77 73.51
273845081321901	CLENNY DP NW/O AVON PK	27 38 45 N	081 32 19 W	05-18-89 09-14-89	61.08 79.70

KEY TO SITE LOCATIONS ON FIGURE 22

HILLSBOROUGH COUNTY

INDEX NUMBER	SITE NUMBER	PAGE NUMBER	INDEX NUMBER	SITE NUMBER	PAGE NUMBER
1	274031082150401	97	25	280230082205601	117
2	274240082212701	98	26	280241082231401	118
2	274240082212702	98	25	280243082203701	119
2	274240082212703	99	27	280316082345801	120
3	274421082275401	99	28	280320082203801	121
4	274427082083701	100	28	280320082203802	121
4	274427082083702	100	29	280503082143701	122
4	274427082083703	101	29	280503082143702	122
5	274428082251501	101	30	280548082355701	123
5	274428082251502	102	31	280550082202901	123
6	275130082194501	102	30	280550082355002	124
7	275215082201901	103	32	280603082385401	124
8	275337082155401	103	33	280605082184101	125
9	275402082222701	104	33	280605082184102	125
9	275402082222702	104	34	280631082193802	126
10	275429082093901	105	35	280639082211001	126
11	275627082150801	105	36	280649082191402	127
12	275705082222001	106	37	280651082202502	127
13	275724082221001	106	37	280651082204302	128
14	275802082044701	107	36	280652082195101	128
15	275817082325001	108	36	280655082193001	129
15	275817082325002	108	36	280655082193002	129
16	280022082210501	109	38	280659082175201	130
17	280034082323702	109	38	280659082175202	130
18	280038082340201	110	39	280659082294302	131
19	280053082350201	111	40	280702082302801	131
19	280053082350202	111	41	280703082341701	132
20	280055082222701	112	42	280739082294202	132
21	280058082202201	113	43	280740082271001	133
21	280058082202202	113	44	280740082271002	133
20	280100082221701	114	44	280752082182701	134
20	280105082222801	114	45	280852082135601	134
22	280145082132501	115	46	280901082310404	135
23	280148082203801	115	47	280920082322101	135
23	280203082202301	116	48	280944082380501	136
24	280209082280301	116			

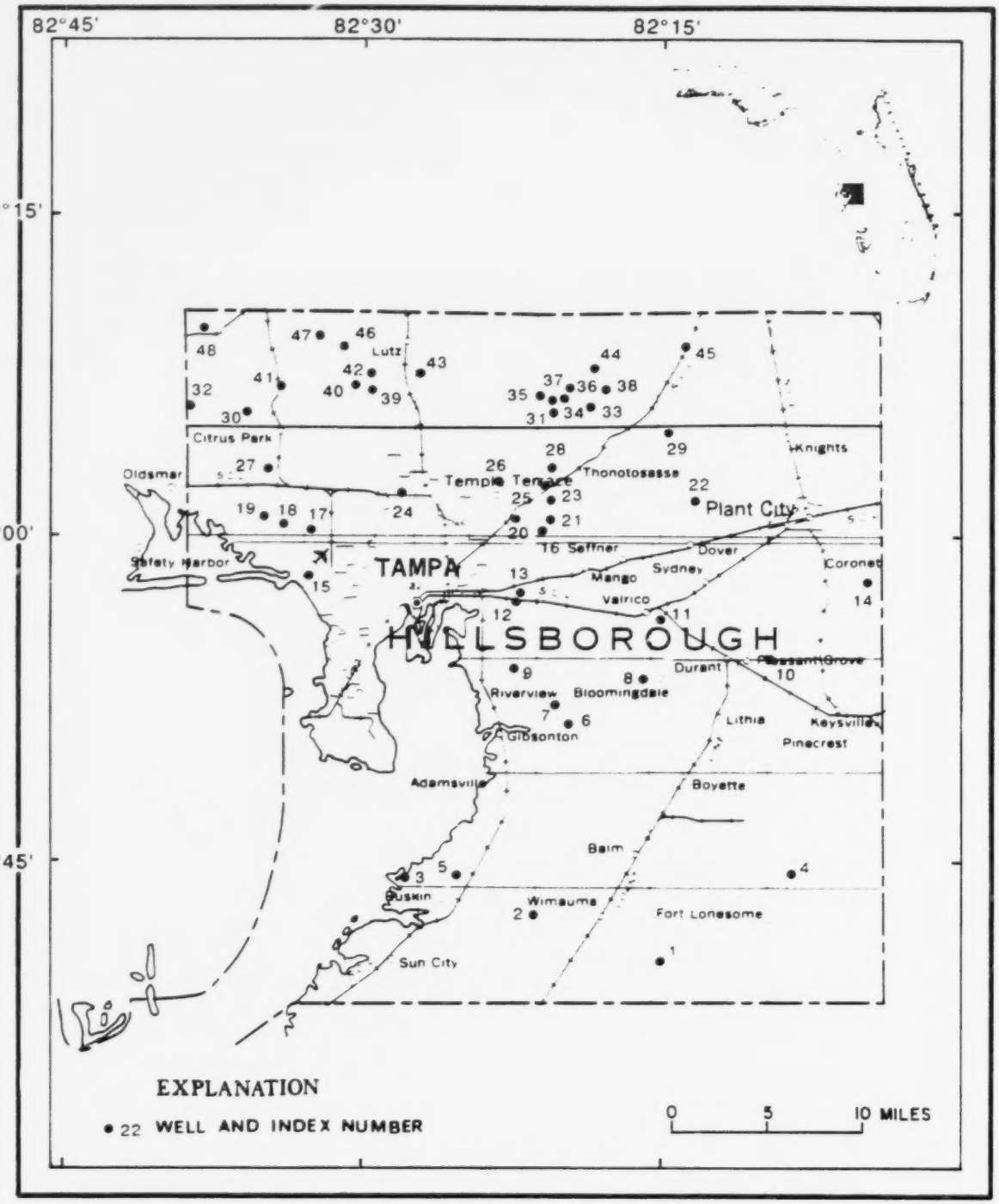

Figure 22.--Location of wells in Hillsborough County.

HILLSBOROUGH COUNTY

WELL NUMBER.--274031082150401. ROMP 123 Deep Well near Wimauma, FL.

LOCATION.--Lat 27°40'31", long 82°15'04", in NW¼NW¼ sec.30, T.32 S., R.21 E., Hydrologic Unit 03100203, 0.6 mi west of Hobbs Road, 2.0 mi south of State Highway 674, and 3.9 mi southeast of Wimauma. Owner: Southwest Florida Water Management District.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 8 in., depth 620 ft, cased to 117 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 51.98 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1979, land-surface datum was considered to be 52 ft, from topographic map. See PERIOD OF RECORD. Measuring point: Top of recorder shelter floor, 2.30 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby wells.

PERIOD OF RECORD.--June 1977 to current year. The figures of water level as elevation in feet, NGVD prior to Oct. 1, 1979, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of -0.22 ft. Revised records are in files of the Geological Survey. See DATUM.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 33.16 ft NGVD, Aug. 21, 1982; lowest, 26.61 ft below NGVD, May 18, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	e15.10	1.72	7.58	4.07	1.39	-8.25	-13.92	e-17.00	e-21.60	7.86	18.71	16.11
10	12.77	4.55	7.59	1.96	e-4.85	e-7.00	-13.90	-21.28	-14.82	10.14	e15.80	16.54
15	5.50	3.24	9.18	-1.85	e-8.00	e-12.10	-15.83	-21.79	-9.54	11.80	e16.90	15.27
20	2.15	.38	8.90	-1.53	e-11.50	e-15.90	-13.37	e-26.40	-6.06	13.70	14.99	15.02
25	1.60	6.38	9.18	4.49	e-17.50	-12.80	-16.64	e-25.90	-.18	15.96	15.89	16.36
EOM	-.48	8.81	5.91	4.70	e-16.00	-15.92	-20.25	e-25.25	3.79	17.98	15.56	18.09
MAX	15.60	8.81	10.14	6.35	4.05	-5.22	-12.35	-16.25	3.79	17.98	18.74	18.09

CAL YR 1988 MAX 23.85
WTR YR 1989 MAX 18.74

e Estimated

HILLSBOROUGH COUNTY

WELL NUMBER.--274240082212701. ROMP 50 Floridan Well near Wimauma, FL.

LOCATION.--Lat 27°42'40", long 82°21'27", in NW¼SE¼ sec.12, T.32 S., R.19 E., Hydrologic Unit 03100203, 0.2 mi south of State Highway 674, and 3.5 mi west of Wimauma. Owner: Southwest Florida Water Management District.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 8 to 6 in., depth 562 ft, cased to 200 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 44.00 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 2.44 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby irrigation wells.

PERIOD OF RECORD.--February 1976 to current year. Prior to October 1979, published as ROMP Deep Well No. 50 near Wimauma.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 21.61 ft NGVD, Oct. 1, 1979; lowest, 20.87 ft below NGVD, May 27, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	10.91	2.10	6.28	3.25	-.84	-3.45	-10.45	-13.75	-15.47	9.60	14.28	13.22
10	7.38	3.39	4.90	-.51	-3.08	-2.22	-11.68	-17.37	-8.09	11.13	11.30	13.73
15	3.99	1.34	7.78	-3.79	-6.10	-6.69	-12.39	-19.02	-4.63	11.02	12.40	13.37
20	1.62	.39	6.75	-2.13	e-9.50	-10.96	-9.07	-20.17	-1.26	11.96	9.75	12.24
25	-.15	6.02	5.42	5.17	e-12.80	-7.35	-13.37	-20.29	3.84	13.81	12.34	13.93
EOM	-1.54	7.71	3.91	4.74	e-11.50	-11.05	-16.96	-17.72	6.98	14.23	12.81	14.91
MAX	10.91	7.90	8.12	5.55	3.19	-.76	-8.83	-12.65	6.98	14.31	14.80	15.26

CAL YR 1988 MAX 18.05
WTR YR 1989 MAX 15.26

e Estimated

WELL NUMBER.--274240082212702. ROMP 50 Shallow Well near Wimauma, FL.

LOCATION.--Lat 27°42'40", long 82°21'27", in NW¼SE¼ sec.12, T.32 S., R.19 E., Hydrologic Unit 03100203, 0.2 mi south of State Highway 674, and 3.5 mi west of Wimauma. Owner: Southwest Florida Water Management District.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 8 in., depth 37.5 ft, cased to 32.5 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 43.96 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.10 ft above land-surface datum.

PERIOD OF RECORD.--March 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 43.79 ft NGVD, Sept. 22, 23, 1977; lowest, 39.93 ft NGVD, May 27, June 4, 5, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	41.73	41.83	41.30	41.02	41.30	41.50	40.97	40.42	39.93	41.60	41.55	42.51
10	41.41	41.42	41.19	40.99	41.11	41.23	40.65	40.25	40.28	41.44	41.27	42.50
15	41.23	41.23	41.49	40.94	41.01	41.11	40.55	40.15	40.34	41.24	41.22	41.81
20	41.13	41.10	41.28	40.90	40.96	40.93	40.54	40.04	40.04	41.53	41.36	41.97
25	41.03	41.87	41.18	41.78	40.89	41.08	40.45	39.96	41.30	41.94	42.28	42.85
EOM	40.96	41.54	41.08	41.46	40.89	40.79	40.49	40.14	41.78	41.68	41.97	42.05
MAX	41.73	42.03	41.59	42.15	41.41	41.57	40.97	40.65	41.78	41.94	42.29	42.85

CAL YR 1988 MAX 43.55
WTR YR 1989 MAX 42.85

e Estimated

HILLSBOROUGH COUNTY

WELL NUMBER.--274240082212703. ROMP 50 Avon Park Well near Wimauma, FL.

LOCATION.--Lat 27°42'40", long 82°21'27", in NW¼SE¼ sec.12, T.32 S., R.19 E., Hydrologic Unit 03100203, 0.2 mi south of State Highway 674, and 3.5 mi west of Wimauma. Owner: Southwest Florida Water Management District.

AQUIFER.--Avon Park formation of Eocene Age, Geologic Unit 124 AVPK.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 1,430 ft, cased to 1,393 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 44.00 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 4.90 ft above land-surface datum.

PERIOD OF RECORD.--August 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 14.95 ft NGVD, Aug. 23, 24, 1982; lowest, 13.05 ft below NGVD, May 26, 1981.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	6.99	2.39	4.71	3.30	1.79	-2.68	-6.03	-8.25	-11.41	-1.68	3.55	5.21
10	6.58	3.84	4.10	2.11	.36	-.96	-5.95	-9.09	-9.15	-.64	3.08	5.97
15	5.17	3.30	4.54	.66	-1.13	-2.45	-7.08	-10.40	-7.66	-.02	3.63	6.42
20	4.26	2.34	4.60	.60	-2.64	-4.28	-5.97	-11.32	-6.48	.63	3.12	5.89
25	3.47	3.42	4.28	2.61	-3.18	-4.81	-6.72	-11.85	-4.75	1.71	4.15	6.53
EOM	2.33	4.84	3.51	3.37	-4.74	-5.06	-8.78	-11.98	-3.14	2.88	5.28	7.64
MAX	7.10	4.84	4.90	3.44	3.27	-.96	-5.28	-8.25	-3.14	2.88	5.28	7.64

CAL YR 1988 MAX 8.76
WTR YR 1989 MAX 7.64

WELL NUMBER.--274421082275401. ROMP 9-1 Transect Deep Well near Ruskin, FL.

LOCATION.--Lat 27°44'21", long 82°27'54", in NW¼SW¼ sec.36, T.31 S., R.18 E., Hydrologic Unit 03100206, at Simmons Park, and 2.2 mi northwest of Ruskin. Owner: Southwest Florida Water Management District.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 8 in., depth 288 ft, cased to 124 ft.

INSTRUMENTATION.--Monthly measurement with steel tape.

DATUM.--Land-surface datum is 3.86 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1979, land-surface datum was considered to be 4 ft, from topographic map. See PERIOD OF RECORD. Measuring point: Top of casing, 8.90 ft above land-surface datum. Prior to Mar. 6, 1978, hole in cap, 8.8 ft above land-surface datum.

PERIOD OF RECORD.--October 1976 to current year (monthly), incomplete. The figures of water level as elevation in feet NGVD, prior to Oct. 1, 1979, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of +0.26 ft. Revised records are in files of the Geological Survey. See DATUM.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.51 ft NGVD, Aug. 31, 1981; lowest measured, 3.12 ft NGVD, May 20, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
NOV			MAY		
17...	1421	9.04	16...	1020	3.64
DEC			17...	1035	3.27
15...	1300	11.06	JUL		
FEB			07...	1450	12.36
03...	1356	8.79	SEP		
APR			08...	1340	13.06
07...	1031	5.33	11...	1615	13.56

HILLSBOROUGH COUNTY

WELL NUMBER.--274427082083701. ROMP 48 Floridan Well near Ft. Lonesome, FL.

LOCATION.--Lat 27°44'27", long 82°08'37", in NW¼SE¼ sec.31, T.31 S., R.22 E., Hydrologic Unit 03100204, 0.25 mi east of State Highway 39, and 2.4 mi north of Ft. Lonesome. Owner: Southwest Florida Water Management District.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 8 to 6 in., depth 541 ft, cased to 215 ft.

INSTRUMENTATION.--Monthly measurement with steel tape.

DATUM --Land-surface datum is 101.04 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of flange, 2.44 ft above land-surface datum. Prior to Sept. 25, 1984, top of shelter floor, 2.50 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby industrial wells.

PERIOD OF RECORD.--March 1976 to September 1981; October 1981 to September 1983 (bimonthly); October 1983 to current year (monthly). Prior to October 1977, published as ROMP Deep Well No. 48 near Ft. Lonesome.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 52.64 ft NGVD, Aug. 31, 1982; lowest measured, 0.65 ft NGVD, June 6, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
12...	0740	34.78	03...	1000	8.83
NOV			16...	1350	4.82
09...	0840	26.04	JUN		
DEC			06...	0850	0.65
13...	0905	29.93	JUL		
JAN			10...	0825	22.07
10...	0920	24.98	AUG		
FEB			17...	0810	30.84
13...	1000	17.96	SEP		
MAR			05...	1240	29.95
17...	1405	12.95	11...	1155	30.75
APR					
05...	0855	11.27			

WELL NUMBER.--274427082083702. ROMP 48 Hawthorn Well near Ft. Lonesome, FL.

LOCATION.--Lat 27°44'27", long 82°08'37", in NW¼SE¼ sec.31, T.31 S., R.22 E., Hydrologic Unit 03100204, 0.25 mi east of State Highway 39, and 2.4 mi north of Ft. Lonesome. Owner: Southwest Florida Water Management District.

AQUIFER.--Hawthorn formation of Miocene Age, Geologic Unit 122 HTRN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 8 to 6 in., depth 61 ft, cased to 45 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 101.10 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.00 ft above land-surface datum.

PERIOD OF RECORD.--March 1976 to current year. Prior to October 1977, published as ROMP Shallow Well No. 48 near Ft. Lonesome.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 97.56 ft NGVD, Sept. 27, 28, 1979; lowest, 88.62 ft NGVD, Mar. 6, 1987.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	95.03	93.64	93.00	92.05	91.72	91.17	90.68	90.03	89.11	89.41	89.79	89.29
10	94.75	93.50	92.80	91.90	91.57	91.05	90.61	89.87	89.03	89.47	89.72	89.19
15	94.47	93.26	92.68	91.76	91.43	90.94	90.50	89.70	88.90	89.55	89.68	89.04
20	94.22	93.05	92.51	91.63	91.34	90.84	90.37	89.54	88.78	89.75	89.61	88.94
25	93.93	93.25	92.38	91.82	91.20	90.74	90.22	89.37	88.98	89.77	89.49	89.38
EOM	93.58	93.20	92.20	91.82	91.17	90.62	90.13	89.22	89.13	89.83	89.37	89.67
MAX	95.05	93.64	93.18	92.18	91.80	91.21	90.69	90.13	89.20	89.83	89.83	89.67

CAL YR 1988 MAX 96.14
WTR YR 1989 MAX 95.05

HILLSBOROUGH COUNTY

WELL NUMBER.--274427082083703. ROMP 48 Avon Park Well near Ft. Lonesome, FL.

LOCATION.--Lat 27°44'27", long 82°08'37", in NW¼SE¼ sec.31, T.31 S., R.22 E., Hydrologic Unit 03100204, 0.25 mi east of State Highway 39, and 2.4 mi north of Ft. Lonesome. Owner: Southwest Florida Water Management District.

AQUIFER.--Avon Park formation of Eocene Age, Geologic Unit 124 AVPK.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 8 to 6 in., depth 815 ft, cased to 780 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 102.06 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 1.71 ft above land-surface datum.

REMARKS.--Water levels affected by pumpage of nearby wells.

PERIOD OF RECORD.--June 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 50.88 ft NGVD, Aug. 26, 1982; lowest, 2.26 ft below NGVD, May 30, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	35.55	22.98	27.65	25.61	21.77	9.63	10.04	7.62	-1.19	18.78	29.52	29.08
10	33.81	24.77	27.96	23.48	19.09	11.95	11.46	6.15	3.80	21.11	29.47	29.39
15	31.63	24.98	28.97	20.69	15.95	12.31	9.28	4.08	6.93	22.80	30.04	29.54
20	28.40	23.64	29.09	19.91	14.28	11.60	9.33	.98	8.77	24.48	29.61	29.56
25	26.41	25.25	28.44	22.17	9.56	10.26	7.55	-.32	12.83	26.36	29.31	30.44
EOM	22.93	27.38	26.88	24.04	7.10	9.37	5.85	-2.17	15.13	27.97	28.06	31.71
MAX	36.03	27.38	29.40	26.84	24.02	12.53	11.46	7.68	15.13	27.97	30.04	31.71

CAL YR 1988 MAX 39.37
WTR YR 1989 MAX 36.03

e Estimated

WELL NUMBER.--274428082251501. ROMP 9-3 Transect Shallow Well near Ruskin, FL.

LOCATION.--Lat 27°44'28", long 82°25'15", in NE¼SE¼ sec.32, T.31 S., R.19 E., Hydrologic Unit 03100206, 80 ft east of U. S. Highway 41, and 1.6 mi northeast of Ruskin. Owner: Southwest Florida Water Management District.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation well, diameter 6 in., depth 25 ft, cased to 20 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 6.57 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1981, land-surface datum was considered to be 8 ft, from topographic map. See PERIOD OF RECORD. Measuring point: Top of recorder shelter floor, 2.89 ft above land-surface datum. Prior to July 28, 1980, top of coupling, 2.8 ft above land-surface datum; July 28, 1980, to Sept. 28, 1982, top of casing, 2.64 ft above land-surface datum; Sept. 28, 1982, to Aug. 30, 1983, top of recorder shelter floor, 3.89 ft above land-surface datum; Aug. 30, 1983, to May 17, 1984, top of coupling, 1.28 ft above land-surface datum; May 17, 1984, to Sept. 30, 1985, top of casing, 3.24 ft above land-surface datum.

PERIOD OF RECORD.--October 1976 to September 1982 (monthly); October 1982 to September 1983 (incomplete); October 1983 to September 1985 (bimonthly); October 1985 to current year. The figures of water level as elevation in feet, NGVD prior to Oct. 1, 1981, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of -1.23 ft. Revised records are in files of the Geological Survey. See DATUM.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 6.23 ft NGVD, Sept. 7, 1988; lowest measured, 3.44 ft below NGVD, May 20, 1981.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	3.63	1.86	3.46	2.38	2.06	1.47	.11	-.72	-2.06	2.84	4.02	4.03
10	3.21	2.11	3.17	2.01	1.63	1.79	-.03	-1.10	-.91	3.04	3.76	5.12
15	2.05	2.26	3.53	1.50	.99	1.41	-.31	-1.54	-.67	2.77	3.64	4.72
20	1.70	1.80	3.12	1.14	.42	.69	-.06	-2.03	-.36	2.80	3.38	4.15
25	1.30	3.39	3.03	2.83	.09	.85	-.37	-2.29	1.17	3.70	3.68	5.42
EOM	.68	3.58	2.58	2.75	-.19	.61	-1.11	-2.22	2.38	3.81	4.37	5.00
MAX	3.88	3.58	3.60	2.85	2.67	1.79	.57	-.69	2.38	3.81	4.58	5.53

CAL YR 1988 MAX 6.23
WTR YR 1989 MAX 5.53

HILLSBOROUGH COUNTY

WELL NUMBER.--274428082251502. ROMP 9-3 Suwannee Well near Ruskin, FL.

LOCATION.--Lat 27°44'28", long 82°25'15", in NE¼SE¼ sec.32, T.31 S., R.19 E., Hydrologic Unit 03100206, 80 ft east of U. S. Highway 41, and 1.6 mi northeast of Ruskin. Owner: Southwest Florida Water Management District.

AQUIFER.--Suwannee limestone of Oligocene Age, Geologic Unit 123 SWNN.

WELL CHARACTERISTICS.--Drilled, observation well, diameter 8 in., depth 514 ft, cased to 289 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 6.57 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 7.92 ft above land-surface datum.

PERIOD OF RECORD.--October 1985 to September 1987 (semiannually); October 1987 to current year (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.90 ft NGVD, Aug. 2, 1989; lowest measured, 10.49 ft below NGVD, May 17, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
NOV			MAY		
17...	1331	0.45	17...	0925	-10.49
FEB			AUG		
03...	1432	0.98	02...	1327	9.90
APR					
07...	0959	-5.23			

WELL NUMBER.--275130082194501. Rivercrest Well at Riverview, FL.

LOCATION.--Lat 27°51'30", long 82°19'45", in SE¼NW¼ sec.20, T.30 S., R.20 E., Hydrologic Unit 03100204, 500 ft north of Gibsonton Road, 700 ft west of U. S. Highway 301, and 0.7 mi south of Riverview. Owner: Southwest Florida Water Management District.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused public supply, artesian well, diameter 8 in., depth 178 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 37.93 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 1.09 ft above land-surface datum. Prior to Sept. 17, 1981, top of casing, 1.00 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells. Extremes may have been exceeded during periods of missing record.

PERIOD OF RECORD.--July 1971 to September 1989, incomplete (discontinued). Records of water levels prior to October 1975 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 19.54 ft NGVD, Sept. 11, 1988; lowest, 3.22 ft NGVD, May 19, 1981.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	17.51	14.39	15.84	14.80	14.24	11.94	10.17	9.40	7.63	14.17	15.64	15.18
10	16.81	15.07	15.66	14.16	13.22	12.48	10.31	8.66	9.02	14.70	14.93	15.47
15	15.85	14.81	15.97	13.34	12.43	11.88	9.95	7.95	9.64	14.78	15.29	15.01
20	15.14	14.21	15.37	13.25	11.71	11.16	10.66	7.23	10.68	14.82	14.56	14.76
25	14.65	15.55	15.47	14.64	10.79	10.97	9.84	7.16	12.15	15.45	14.82	15.48
EOM	13.78	16.17	14.89	15.09	10.30	10.78	8.63	7.31	13.16	15.73	15.14	16.16
MAX	17.67	16.17	16.18	15.14	14.99	12.51	10.66	9.40	13.16	15.73	15.79	16.16

CAL YR 1988 MAX 19.54
WTR YR 1989 MAX 17.67

HILLSBOROUGH COUNTY

WELL NUMBER.--275215082201901. U. S. Phosphoric Well at Riverview, FL.

LOCATION.--Lat 27°52'15", long 82°20'19", in NE¼SE¼ sec.18, T.30 S., R.20 E., Hydrologic Unit 03100204, 20 ft south of Riverview Drive, and 0.7 mi west of Riverview. Owner: U. S. Phosphoric.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused industrial, artesian well, diameter 16 in., depth 830 ft.

INSTRUMENTATION.--Monthly measurement with steel tape.

DATUM.--Land-surface datum is 23.19 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 12 in. coupling, 0.83 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--September 1962 to September 1977 (bimonthly); October 1977 to current year (monthly), incomplete. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.30 ft NGVD, Sept. 26, 1962; lowest measured, 0.20 ft below NGVD, May 20, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
NOV			MAY		
17...	1636	10.56	15...	1145	4.51
DEC			23...	1005	4.08
15...	1223	11.84	JUL		
FEB			25...	1141	11.26
03...	0944	10.55	SEP		
MAR			11...	0915	11.62
24 ..	0855	7.31	13...	1137	11.34

WELL NUMBER.--275337082155401. Bloomingdale Road Well near Bloomingdale, FL.

LOCATION.--Lat 27°53'37", long 82°15'54", in SE¼SW¼ sec.1, T.30 S., R.20 E., Hydrologic Unit 03100204, on north side of Bloomingdale Road, 1.3 mi east of Bloomingdale, and 6.3 mi northwest of Lithia. Owner: Hillsborough County.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 183 ft, cased to 168 ft.

INSTRUMENTATION.--Monthly measurement with steel tape.

DATUM.--Altitude of land-surface datum is 53 ft, from topographic map. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--August 1964 to September 1977 (bimonthly); October 1977 to current year (monthly). Records of water levels prior to January 1974 are available in files of the Geological Survey. Prior to October 1977, published as Bloomingdale Road Well near Lithia.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.03 ft NGVD, May 18, 1987; lowest measured, 8.52 ft NGVD, May 20, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
05...	1205	19.73	02...	1115	11.65
NOV			15...	1000	10.72
09...	1210	16.48	JUN		
DEC			05...	1530	10.98
09...	1545	16.81	JUL		
JAN			14...	1050	13.62
17...	1015	14.00	AUG		
FEB			08...	1350	13.23
07...	1045	14.75	SEP		
MAR			05...	1215	13.75
06...	1508	13.47	11...	1057	13.85
APR					
04...	1345	12.37			

HILLSBOROUGH COUNTY

WELL NUMBER.--275402082222701. ROMP TR 10-2 Deep Well near Tampa, FL.

LOCATION.--Lat 27°54'02", long 82°22'27", in NW¼SE¼ sec.2, T.30 S., R.19 E., Hydrologic Unit 03100206, 69 ft south of State Highway 676A, 1.6 mi east of U. S. Highway 41, and 6.2 mi southeast of Tampa. Owner: Southwest Florida Water Management District.

AQUIFER.--Tampa limestone of Miocene Age, Geologic Unit 122 TAMP.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 125 ft, cased to 115 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 13.87 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 6.22 ft above land-surface datum. Prior to Dec. 18, 1987, top of flange, 5.52 ft above land-surface datum.

PERIOD OF RECORD.--August 1979 to current year (incomplete). Records of water levels prior to October 1979 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 12.43 ft NGVD, Sept. 7, 8 1988; lowest, 0.22 ft NGVD, May 23, 1981.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	11.46	9.85	10.21	10.00	9.64	8.60	7.63	6.88	6.20	9.21	9.75	---
10	10.92	10.04	10.36	9.70	9.20	8.51	7.59	6.53	6.79	9.42	9.52	---
15	10.39	9.91	10.57	9.27	8.71	8.60	7.35	6.15	6.99	9.40	9.92	---
20	10.23	9.61	10.46	9.07	8.43	8.12	7.56	5.71	7.40	9.41	9.69	---
25	10.03	10.20	10.17	9.33	7.91	8.02	7.18	5.74	8.21	9.82	9.86	---
EOM	9.50	10.74	10.08	10.05	7.83	8.00	6.66	5.92	8.74	9.91	---	---
MAX	11.66	10.74	10.73	10.05	9.99	8.77	7.72	6.89	8.74	9.92	---	---

CAL YR 1988 MAX 12.43

WELL NUMBER.--275402082222702. ROMP TR 10-2 Shallow Well near Tampa, FL.

LOCATION.--Lat 27°54'02", long 82°22'27", in NW¼SE¼ sec.2, T.30 S., R.19 E., Hydrologic Unit 03100206, 69 ft south of State Highway 676A, 1.6 mi east of U. S. Highway 41, and 6.2 mi southeast of Tampa. Owner: Southwest Florida Water Management District.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 13.6 ft, cased to 13.6 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 13.87 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1979, land-surface datum was considered to be 15 ft, from topographic map. See PERIOD OF RECORD. Measuring point: Top of recorder shelter floor, 5.82 ft above land-surface datum.

PERIOD OF RECORD.--September 1978 to September 1979 (monthly); October 1979 to current year. Records of water levels prior to October 1978 are available in files of the Geological Survey. The figures of water level as elevation in feet, NGVD prior to Oct. 1, 1979, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of +0.69 ft. Revised records are in files of the Geological Survey. See DATUM.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.06 ft NGVD, Jan. 8, 1979; lowest daily maximum water level, 9.49 ft NGVD, June 12, 13, 1985.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	13.74	13.35	13.07	12.11	12.43	12.83	11.19	10.23	10.25	12.94	13.13	14.38
10	12.90	12.22	12.68	11.97	11.97	11.98	10.83	10.11	10.68	13.22	13.76	14.14
15	12.15	11.89	13.58	11.82	11.76	11.67	10.75	10.00	10.67	12.87	13.75	14.17
20	11.85	11.68	13.12	11.99	11.57	11.38	10.63	9.91	10.72	12.21	14.28	13.23
25	11.64	13.81	12.81	13.60	11.39	11.53	10.46	9.81	11.92	13.97	14.61	14.55
EOM	11.45	13.62	12.36	13.09	11.34	11.22	10.33	10.38	12.74	13.87	13.72	13.82
MAX	14.17	14.89	14.35	14.49	12.90	13.33	11.20	10.38	12.74	14.57	14.61	14.80

CAL YR 1988 MAX 14.89
WTR YR 1989 MAX 14.89

HILLSBOROUGH COUNTY

WELL NUMBER.--275429082093901. ROMP 61 Well at Pleasant Grove, FL.

LOCATION.--Lat 27°54'29", long 82°09'39", in SW¼SE¼ sec.36, T.29 S., R.21 E., Hydrologic Unit 03100204, 0.6 mi southeast of gage at Edward Medard Reservoir, and 0.6 mi northeast of intersection Turkey Creek Road and Durant Road at Pleasant Grove. Owner: Southwest Florida Water Management District.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 12 in., depth 1,000 ft, cased to 60 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 71.53 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.89 ft above land-surface datum. Prior to Apr. 25, 1986, top of recorder shelter floor, 3.90 ft above land-surface datum.

PERIOD OF RECORD.--October 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 54.23 ft NGVD, Apr. 5, 1983; lowest, 20.79 ft NGVD, June 8, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	40.33	32.80	39.66	36.15	35.08	27.84	28.06	26.00	e21.00	32.01	35.39	35.47
10	e39.10	e34.80	37.41	34.19	34.52	30.91	27.98	24.73	20.98	32.53	33.99	36.41
15	38.69	e35.40	39.30	32.53	32.03	29.28	28.05	23.59	22.94	32.09	33.75	35.30
20	36.30	34.55	37.16	32.89	30.21	27.37	27.89	e22.20	25.32	32.97	32.85	34.35
25	34.56	37.06	36.96	35.62	27.61	28.69	26.08	e21.50	28.95	33.28	34.16	34.62
EOM	31.58	39.30	37.61	35.54	23.77	27.96	23.70	e21.50	30.82	34.69	34.06	36.44
MAX	41.01	39.30	39.66	37.46	35.22	31.17	29.15	26.05	30.82	35.15	35.48	36.44

CAL YR 1988 MAX 46.27
WTR YR 1989 MAX 41.01

e Estimated

WELL NUMBER.--275627082150801. Turner Well near Brandon, FL.

LOCATION.--Lat 27°56'27", long 82°15'08", in SW¼SW¼ sec.19, T.29 S., R.21 E., Hydrologic Unit 03100205, 100 ft east of Valrico Road, 500 ft north of U. S. Highway 60, and 1.5 mi east of Brandon. Owner: Southwest Florida Water Management District.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused irrigation, artesian well, diameter 8 in., depth 342 ft, cased to 60 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 36.40 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 2.49 ft above land-surface datum. Prior to Sept. 18, 1978, top of coupling, at land-surface datum; Sept. 18, 1978, to May 26, 1983, top of recorder shelter floor, 3.13 ft above land-surface datum.

PERIOD OF RECORD.--January 1963 to August 1978 (bimonthly); September 1978 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 23.85 ft estimated, NGVD, Sept. 20, 1988; lowest, 10.87 ft NGVD, May 19, 1981.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	23.40	20.14	20.06	e19.05	e18.25	16.73	15.84	14.53	13 02	15.11	16.10	16.61
10	22.83	20.04	19.84	e18.55	17.81	16.74	15.69	14.11	13.15	15.31	15.96	16.70
15	22.05	19.77	19.92	e18.45	17.38	16.51	15.56	13.86	13.46	15.52	16.08	16.42
20	21.38	19.38	e19.90	e19.05	17.18	16.22	15.34	13.48	13.71	15.67	16.03	16.39
25	20.94	20.06	e19.65	e18.90	16.25	16.09	14.76	13.25	14.30	16.00	15.93	16.99
EOM	20.16	20.16	e19.25	e18.75	16.38	15.95	14.51	13.15	14.70	16.08	16.15	17.39
MAX	23.53	20.22	20.16	19.20	18.65	16.80	15.93	14.66	14.70	16.09	16.30	17.40

CAL YR 1988 MAX 23.85
WTR YR 1989 MAX 23.53

e Estimated

HILLSBOROUGH COUNTY

WELL NUMBER.--275705082222001. ROMP TR 11-2 Well near Tampa, FL.

LOCATION.--Lat 27°57'05", long 82°22'20", in NE¼NE¼ sec.23, T.29 S., R.19 E., Hydrologic Unit 03100206, 100 ft east of Tampa Bypass Canal, 100 ft south of State Highway 60, at southeastern city limits of Tampa. Owner: Southwest Florida Water Management District.

AQUIFER.--Suwannee limestone of Oligocene Age, Geologic Unit 123 SWNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 315 ft, cased to 300 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 14.22 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 8.00 ft above land-surface datum.

PERIOD OF RECORD.--May 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 17.01 ft NGVD, Sept. 11, 1988; lowest, 9.60 ft NGVD, May 19, 20, 1981.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	16.51	15.51	15.27	14.76	14.64	14.16	13.23	12.41	11.65	13.87	e14.37	15.04
10	16.31	15.19	15.41	14.49	14.23	13.77	13.25	12.24	11.85	13.93	14.18	15.11
15	15.89	14.97	15.17	14.62	14.07	13.83	13.21	12.10	11.83	13.90	14.49	14.80
20	15.73	15.05	15.10	14.36	14.07	13.70	12.90	11.60	12.17	14.05	14.58	e14.59
25	15.45	15.31	15.24	14.66	13.79	13.72	12.73	11.65	12.94	14.31	14.47	e14.88
EOM	15.26	15.29	15.03	14.73	13.69	13.50	12.63	11.65	13.22	e14.46	14.73	e14.99
MAX	16.82	15.69	15.57	15.12	14.65	14.16	13.43	12.64	13.22	14.49	14.85	15.11

CAL YR 1988 MAX 17.01
WTR YR 1989 MAX 16.82

e Estimated

WELL NUMBER.--275724082221001. Structure 160 Well near Tampa, FL.

LOCATION.--Lat 27°57'24", long 82°22'10", in NE¼SE¼ sec.14, T.29 S., R.19 E., Hydrologic Unit 03100206, on right bank 50 ft upstream from structure S-160 on Tampa Bypass Canal, at southeastern city limits of Tampa, and 0.4 mi north of State Highway 60. Owner: Southwest Florida Water Management District.

AQUIFER.--Tampa limestone of Miocene Age, Geologic Unit 122 TAMP.

WELL CHARACTERISTICS.--Drilled, unused industrial, artesian well, diameter 10 in., depth 240 ft, cased to 85 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 14.95 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.00 ft above land-surface datum.

PERIOD OF RECORD.--April 1971 to current year, incomplete. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 16.69 ft NGVD, Sept. 10, 1988; lowest, 8.37 ft NGVD, May 5, 1971.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	16.10	15.32	15.10	14.51	14.54	14.19	e13.23	12.46	11.77	13.88	14.46	14.96
10	15.98	14.96	15.23	14.15	14.14	13.71	13.33	12.36	12.00	13.86	14.11	15.08
15	15.64	14.73	14.93	14.54	13.99	13.74	13.28	12.19	11.80	13.83	14.32	14.69
20	15.43	14.90	14.89	14.15	14.00	13.68	12.94	11.82	12.15	13.88	14.59	14.59
25	15.23	15.21	15.08	14.43	13.86	13.78	12.64	11.62	13.00	14.18	14.39	14.88
EOM	15.10	15.06	14.87	14.52	13.63	13.48	12.81	11.48	13.26	14.41	14.61	14.99
MAX	16.43	15.53	15.41	14.98	14.54	14.19	13.51	12.75	13.26	14.48	14.83	15.08

CAL YR 1988 MAX 16.69
WTR YR 1989 MAX 16.43

e Estimated

HILLSBOROUGH COUNTY

WELL NUMBER.--275802082044701. Fletcher Lett Well near Plant City, FL.

LOCATION.--Lat 27°58'02", long 82°04'47", in SW¼SE¼ sec.11, T.29 S., R.22 E., Hydrologic Unit 03100204, 60 ft north of Trapnell Road, 2.6 mi east of State Highway 39, and 3.0 mi south of Plant City. Owner: Fletcher Lett.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, irrigation, artesian well, diameter 8 in., depth 530 ft, cased to 100 ft.

INSTRUMENTATION.--Monthly measurement with steel tape.

DATUM.--Land-surface datum is 122.60 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1979, land-surface datum was considered to be 124 ft, from topographic map. See PERIOD OF RECORD. Measuring point: Top of access hole in pump base, 1.0 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby irrigation wells.

PERIOD OF RECORD.--November 1963 to September 1977 (bimonthly), incomplete; October 1977 to current year (monthly). Records of water levels prior to January 1974 are available in files of the Geological Survey. The figures of water level as elevation in feet, NGVD prior to Oct. 1, 1979, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of -1.40 ft. Revised records are in files of the Geological Survey. See DATUM.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 81.21 ft NGVD, Nov. 12, 1970; lowest measured, 43.00 ft NGVD, May 13, 1975.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
14...	1710	67.76	04...	1420	57.30
NOV			15...	1540	54.28
08...	0835	63.92	JUN		
DEC			09...	1250	50.80
16...	1540	68.56	JUL		
JAN			11...	1315	58.41
11...	1340	66.40	AUG		
FEB			15...	1635	62.40
15...	1530	62.85	SEP		
MAR			05...	1635	64.18
16...	0940	58.98	12...	1330	64.82
APR					
07...	1550	59.12			

HILLSBOROUGH COUNTY

WELL NUMBER.--275817082325001. ROMP TR 12-1 Deep Well near Tampa, FL.

LOCATION.--Lat 27°58'17", long 82°32'50", in SW¼NE¼ sec.7, T.29 S., R.18 E., Hydrologic Unit 03100206, 100 ft west of State Highway 589, 1.0 mi southwest of Tampa International Airport, and 5.7 mi west of Tampa. Owner: Southwest Florida Water Management District.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 128 ft, cased to 123 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 6.36 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.18 ft above land-surface datum.

PERIOD OF RECORD --October 1976 to current year. Prior to October 1979, published as ROMP Deep Well 64 near Tampa.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 9.27 ft NGVD, Aug. 31, 1985; lowest, 3.54 ft NGVD, May 4, 1986.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	6.06	6.82	5.91	5.97	6.04	6.09	5.54	5.67	5.79	6.36	6.11	6.49
10	5.87	5.95	6.36	6.03	5.19	5.22	5.64	5.55	5.14	5.81	6.19	6.58
15	5.76	5.71	5.87	5.86	5.61	5.89	5.39	4.92	5.49	6.30	6.65	6.62
20	6.17	6.04	6.23	5.84	5.60	5.45	5.42	5.12	5.97	6.64	6.11	6.13
25	6.22	6.06	6.13	5.50	4.98	5.49	5.45	5.13	5.78	6.12	6.59	6.85
EOM	5.71	5.96	5.93	5.94	5.74	5.78	5.28	5.12	6.31	6.57	6.63	6.58
MAX	6.66	6.98	6.57	6.32	6.17	6.17	5.73	5.81	6.31	6.64	6.76	6.85

CAL YR 1988 MAX 7.85
WTR YR 1989 MAX 6.98

WELL NUMBER.--275817082325002. ROMP TR 12-1 Shallow Well near Tampa, FL.

LOCATION.--Lat 27°58'17", long 82°32'50", in SW¼NE¼ sec.7, T.29 S., R.18 E., Hydrologic Unit 03100206, 100 ft west of State Highway 589, 1.0 mi southwest of Tampa International Airport, and 5.7 mi west of Tampa. Owner: Southwest Florida Water Management District.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 9 ft, cased to 7 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 6.36 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.18 ft above land-surface datum. Prior to Feb. 2, 1988, top of coupling, 3.10 ft above land-surface datum.

PERIOD OF RECORD.--January to April 1977 (bimonthly); April 1977 to current year. Prior to October 1979, published as ROMP Shallow Well 64 near Tampa.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 6.80 ft NGVD, May 8, 1979; lowest, 1.53 ft NGVD, June 11, 12, 1985.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	3.59	4.09	3.54	3.22	3.28	3.83	2.83	2.25	2.31	3.67	3.56	5.47
10	3.32	3.34	3.49	3.19	3.19	3.38	2.63	2.12	2.29	3.46	5.47	5.18
15	3.17	3.12	3.88	3.10	3.09	3.24	2.53	2.02	2.15	4.05	3.92	3.74
20	3.06	3.00	3.60	3.11	3.00	3.02	2.58	1.89	3.95	4.48	4.16	3.52
25	2.99	4.23	3.48	3.82	3.12	3.32	2.37	1.83	4.05	4.66	4.08	5.37
EOM	2.86	3.79	3.33	3.46	3.04	2.96	2.63	1.77	5.20	4.38	4.12	3.83
MAX	3.82	6.45	5.40	5.19	3.42	4.67	2.93	2.58	5.20	5.81	5.52	5.60

CAL YR 1988 MAX 6.61
WTR YR 1989 MAX 6.45

HILLSBOROUGH COUNTY

WELL NUMBER.--280022082210501. SWFWMD Well west of Vandenberg Airport near Temple Terrace, FL.

LOCATION.--Lat 28°00'22", long 82°21'05", in NW¼SE¼ sec.31, T.28 S., R.20 E., Hydrologic Unit 03100206, 0.9 mi northeast of intersection Interstate 4 and U. S. Highway 301, and 3.4 mi southeast of Temple Terrace. Owner: Southwest Florida Water Management District.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 37 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 17.98 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 1.94 ft above land-surface datum. Prior to July 6, 1978, top of coupling, 2.50 ft above land-surface datum; July 6, 1978, to Mar. 12, 1982, top of recorder shelter floor, 2.16 ft above land-surface datum.

PERIOD OF RECORD.--December 1976 to June 1978 (twice monthly); July 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 17.75 ft NGVD, Sept. 11, 1979; lowest, 12.86 ft NGVD, June 10, 1985.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	17.28	16.82	16.69	16.52	16.34	16.07	15.72	15.27	13.79	15.50	15.85	16.08
10	17.22	16.72	16.70	16.45	16.24	16.02	15.68	15.17	13.76	15.56	15.93	16.13
15	17.12	16.64	16.70	16.39	16.18	15.98	15.64	15.08	14.14	15.62	15.94	16.08
20	17.00	16.59	16.64	16.35	16.16	15.91	15.58	14.94	14.43	15.68	15.96	16.06
25	16.90	16.58	16.63	16.43	16.05	15.87	15.45	14.77	14.96	16.03	15.98	16.18
EOM	16.78	16.45	16.57	16.40	16.05	15.81	15.36	14.29	15.45	15.88	16.10	16.15
MAX	17.34	17.43	16.80	16.56	16.38	16.13	15.80	15.36	15.48	16.03	16.23	16.19

CAL YR 1988 MAX 17.43
WTR YR 1989 MAX 17.43

WELL NUMBER.--280034082323702. ROMP TR 12-3 SWNN Well near Tampa, FL.

LOCATION.--Lat 28°00'34", long 82°32'37", in NW¼SE¼ sec. 31, T.28 S., R.18 E., Hydrologic Unit 03100206, 50 ft south of Johns Road, 0.7 mi north of State Highway 580, and 5.0 mi west of Tampa. Owner: Southwest Florida Water Management District.

AQUIFER.--Suwannee limestone of Oligocene Age, Geologic Unit 123 SWNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 345 ft, cased to 310 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 20.40 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.50 ft above land-surface datum.

PERIOD OF RECORD.--July 1987 to September 1989 (incomplete), discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 13.77 ft NGVD, Sept. 6, 1988; lowest, 10.04 ft NGVD, May 27, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	12.43	12.20	12.03	---	11.99	12.05	11.27	10.92	10.90	12.16	12.26	12.87
10	12.01	11.72	12.27	---	11.38	11.30	11.15	10.61	10.89	11.96	12.34	---
15	11.87	11.78	12.15	---	11.69	11.83	11.03	10.34	10.75	12.18	12.62	---
20	12.06	11.71	12.00	11.71	11.55	11.29	10.97	10.27	11.30	12.31	12.31	---
25	12.01	12.21	11.95	11.78	11.17	11.42	10.67	10.27	11.70	12.30	12.69	---
EOM	11.71	12.28	---	12.10	11.56	11.50	10.65	10.51	12.16	12.61	12.56	---
MAX	12.79	12.86	---	---	11.99	12.07	11.46	11.09	12.16	12.61	12.79	---

HILLSBOROUGH COUNTY

WELL NUMBER.--280038082340201. Channel G BM Deep Well near Tampa, FL.

LOCATION.--Lat 28°00'38", long 82°34'02", in NE¼NW¼ sec.35, T.28 S., R.17 E., Hydrologic Unit 03100206, 40 ft south of Channel G, 100 ft west of Webb Road, and 8.6 mi northwest of Tampa. Owner: Unknown.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 120 ft, cased to 115 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 7.80 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District). Measuring point: Top of shelter floor, 1.50 ft above land-surface datum.

REMARKS.--Water levels affected by tidal fluctuations.

PERIOD OF RECORD.--September 1975 to September 1981; October 1981 to September 1982 (monthly), incomplete; October 1982 to current year (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 8.07 ft NGVD, Sept. 22, 1979; lowest, 4.56 ft NGVD, Apr. 3, 1976.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
05...	0800	7.17	12...	0945	5.55
DEC			15...	0800	5.48
15...	1135	7.18	JUN		
FEB			15...	1015	5.75
07...	1330	6.80	AUG		
APR			10...	1100	7.33
12...	1020	5.67	SEP		
			13...	0915	7.44

HILLSBOROUGH COUNTY

WELL NUMBER.--280053082350201. Sheldon Road Shallow Well near Citrus Park, FL.

LOCATION.--Lat 28°00'53", long 82°35'02", in NE¼SE¼ sec.27, T.28 S., R.17 E., Hydrologic Unit 03100206, 30 ft west of State Highway 589, and 5.5 mi south of Citrus Park. Owner: Unknown.

AQUIFER.--Tampa limestone of Miocene Age, Geologic Unit 122 TAMP.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 88 ft, cased to 39 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 9.36 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.50 ft above land-surface datum.

PERIOD OF RECORD.--December 1968 to September 1985 (bimonthly); October 1985 to September 1986 (monthly); October 1986 to current year (bimonthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.21 ft NGVD, Oct. 3, 1983; lowest measured, 4.70 ft NGVD, May 15, 1985.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
NOV			MAY		
02...	0745	7.51	15...	0815	6.51
DEC			JUN		
13...	1229	8.51	15...	0917	6.53
FEB			AUG		
07...	1200	7.98	10...	1005	8.71
APR			SEP		
12...	0945	6.76	13...	0900	8.72

WELL NUMBER.--280053082350202. Sheldon Road Deep Well near Citrus Park, FL.

LOCATION.--Lat 28°00'53", long 82°35'02", in NE¼SE¼ sec.27, T.28 S., R.17 E., Hydrologic Unit 03100206, 25 ft west of State Highway 589, and 5.5 mi south of Citrus Park. Owner: U.S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 330 ft, cased to 315 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 9.45 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.24 ft above land-surface datum.

PERIOD OF RECORD.--December 1968 to February 1973 (bimonthly); March 1973 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 10.25 ft NGVD, Sept. 1, 1985; lowest, 5.93 ft NGVD, Mar. 19, 1985.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.78	8.12	7.73	7.37	7.75	7.97	7.32	7.21	7.14	8.27	8.14	8.75
10	7.42	7.47	8.01	7.49	7.20	7.21	7.26	7.06	7.19	7.88	8.34	8.74
15	7.31	7.27	7.61	7.30	7.58	7.75	7.09	6.61	7.06	8.09	8.64	8.62
20	7.63	7.48	7.68	7.43	7.42	7.23	7.11	6.58	7.52	8.42	8.23	8.31
25	7.65	7.84	7.73	7.43	6.99	7.43	6.94	6.55	7.79	8.25	8.58	8.86
EOM	7.26	7.89	7.63	7.88	7.59	7.61	6.76	6.71	8.23	8.54	8.57	8.66
MAX	8.17	8.59	8.06	7.88	7.82	8.00	7.58	7.41	8.23	8.54	8.69	8.93

CAL YR 1988 MAX 9.21
WTR YR 1989 MAX 8.93

HILLSBOROUGH COUNTY

WELL NUMBER.--280055082222701. USCE Well TBC-09 near Temple Terrace, FL.

LOCATION.--Lat 28°00'55", long 82°22'27", in NW¼SE¼ sec.26, T.28 S., R.19 E., Hydrologic Unit 03100206, 1.6 mi northwest of intersection Interstate 4 and U. S. Highway 301, and 1.7 mi southeast of Temple Terrace. Owner: Southwest Florida water Management District.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 110 ft, cased to 68 ft.

INSTRUMENTATION.--Monthly measurement with steel tape.

DATUM.--Land-surface datum is 41.04 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.60 ft above land-surface datum.

REMARKS.--Well also sampled for water quality.

COOPERATION.--Some records provided by Southwest Florida Water Management District.

PERIOD OF RECORD.--May 1975; August 1975 to September 1977 (weekly), incomplete; October 1977 to September 1980 (twice monthly); October 1980 to current year (monthly), incomplete.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.38 ft NGVD, Oct. 30, 1975; lowest measured, 15.67 ft NGVD, May 27, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
04...	1055	22.36	02...	1455	19.52
NOV			18...	1600	18.18
09...	1415	20.64	JUN		
DEC			09...	1150	17.62
08...	1400	22.00	21...	1100	17.58
JAN			22...	0930	17.58
17...	1055	21.88	JUL		
FEB			14...	1255	21.18
13...	1115	21.78	AUG		
MAR			15...	0930	21.40
06...	1330	21.90	SEP		
APR			05...	1130	21.85
07...	1410	20.38	13...	0950	21.56

HILLSBOROUGH COUNTY

WELL NUMBER.--280058082202201. Eureka Springs Landfill Deep Well near Temple Terrace, FL.

LOCATION.--Lat 28°00'58", long 82°20'22", in NE¼SE¼ sec.30, T.28 S., R.20 E., Hydrologic Unit 03100206, 1.7 mi northwest of Interstate 4 and U. S. Highway 301 interchange, and 2.5 mi southeast of Temple Terrace. Owner: West Coast Regional Water Supply Authority.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 37 ft, cased to 34.5 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 21.40 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.47 ft above land-surface datum. Prior to Mar. 12, 1982, top of recorder shelter floor, 3.50 ft above land-surface datum.

PERIOD OF RECORD.--June 1976 to current year. Prior to October 1976, published as Eureka Springs Landfill Deep Well near Tampa.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 21.93 ft NGVD, Oct. 10, 1979; lowest, 13.91 ft NGVD, June 10, 1985.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	21.20	20.02	19.80	19.41	19.01	18.41	17.73	16.79	15.26	e17.00	e17.60	e18.05
10	21.00	19.86	19.81	19.27	18.83	18.33	17.60	16.54	15.20	e17.15	e17.80	e18.10
15	20.80	19.67	19.81	19.13	18.77	18.24	17.49	16.36	15.44	e17.40	e17.90	e18.05
20	20.57	19.53	19.70	19.07	18.69	18.11	17.37	16.10	15.57	e17.65	17.95	e18.10
25	20.35	19.66	19.67	19.11	18.39	18.02	17.10	15.86	e16.30	e17.85	17.97	e18.20
EOM	20.04	19.74	19.51	19.11	18.37	17.89	16.91	15.60	e16.80	e17.65	e18.05	e18.20
MAX	21.25	20.02	19.89	19.50	19.09	18.48	17.85	16.91	16.80	17.85	18.20	18.25

CAL YR 1988 MAX 21.25
WTR YR 1989 MAX 21.25

e Estimated

WELL NUMBER.--280058082202202. Eureka Springs Landfill Shallow Well near Temple Terrace, FL.

LOCATION.--Lat 28°00'58", long 82°20'22", in NE¼SE¼ sec.30, T.28 S., R.20 E., Hydrologic Unit 03100206, 1.7 mi northwest of intersection Interstate 4 and U. S. Highway 301, and 2.5 mi southeast of Temple Terrace. Owner: West Coast Regional Water Supply Authority.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 10 ft, cased to 4 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 21.19 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.47 ft above land-surface datum. Prior to Mar. 12, 1982, top of recorder shelter floor, 3.50 ft above land-surface datum.

PERIOD OF RECORD.--June 1976 to current year. Prior to October 1976, published as Eureka Springs Landfill Shallow Well near Tampa.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 21.37 ft NGVD, Sept. 6, 1988; lowest, 14.94 ft NGVD, June 13, 1985.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	19.34	19.76	20.54	19.38	20.52	20.34	17.61	16.59	15.33	e17.75	e18.25	20.70
10	18.32	18.47	20.37	19.05	19.88	19.24	17.36	16.39	15.22	e17.85	e18.75	20.68
15	18.02	18.11	20.65	18.82	18.97	18.46	17.33	16.19	16.47	e18.10	e20.65	19.67
20	17.85	17.92	20.54	20.14	18.64	18.12	17.12	15.97	16.13	e18.65	20.62	19.26
25	17.68	20.78	20.46	20.75	18.29	18.26	16.92	15.76	e16.70	e18.75	20.62	20.71
EOM	17.49	20.65	20.05	20.65	18.27	17.83	16.74	15.51	e17.95	e18.70	20.70	20.45
MAX	20.25	21.03	20.72	20.90	20.63	20.55	17.78	16.72	17.95	19.00	21.00	20.77

CAL YR 1988 MAX 21.37
WTR YR 1989 MAX 21.03

e Estimated

HILLSBOROUGH COUNTY

WELL NUMBER.--280100082221701. S-161 Shallow Well No. 4 near Temple Terrace, FL.

LOCATION.--Lat 28°01'00", long 82°22'17", in SE¼NW¼ sec.26, T.28 S., R.19 E., Hydrologic Unit 03100206, on right berm of Tampa Bypass Canal below Structure 161, 1.7 mi northwest of intersection Interstate 4 and U. S. Highway 301, and 2.2 mi southwest of Temple Terrace. Owner: Southwest Florida Water Management District.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.-Drilled, observation, water table well, diameter 2 in., depth 30.5 ft, cased to 28.5 ft.

INSTRUMENTATION.--Monthly measurement with steel tape.

DATUM.--Land-surface datum is 27.88 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of coupling, 2.3 ft above land-surface datum.

REMARKS.--Water levels affected by fluctuations of stage in Tampa Bypass Canal.

PERIOD OF RECORD.--October 1982 to September 1984; October 1984 to current year (monthly), incomplete.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.79 ft NGVD, Aug. 15, 1989; lowest measured, 11.57 ft NGVD, Nov. 9, 1988.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			APR		
04...	1100	14.86	07...	1320	14.53
NOV			JUN		
09...	1440	11.57	22...	1115	13.57
DEC			JUL		
08...	1350	14.72	14...	1310	14.73
JAN			AUG		
17...	1050	14.68	15...	0950	15.79
FEB			SEP		
13...	1025	14.69	05...	1145	14.80
MAR					
06...	1340	14.66			

WELL NUMBER.--280105082222801. USCE Well TBC-08 near Temple Terrace, FL.

LOCATION.--Lat 28°01'05", long 82°22'28", in SW¼NE¼ sec.26, T.28 S., R.19 E., Hydrologic Unit 03100206, 1.5 mi southeast of Temple Terrace, and 1.9 mi northwest of intersection Interstate 4 and U. S. dighway 301. Owner: Southwest Florida Water Management District.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 100 ft, cased to 43 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 26.00 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.01 ft above land-surface datum. Prior to Jan. 6, 1981, top of casing, 3.03 ft above land-surface datum.

COOPERATION.--Some records, August 1975 to April 1976, were provided by Southwest Florida Water Management District and reviewed by Geological Survey.

PERIOD OF RECORD.--August 1975 to April 1976 (weekly); May 1976 to December 1980; January 1981 to September 1982 (monthly); October 1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 22.76 ft NGVD, Sept. 5, 1988; lowest, 14.98 ft NGVD, June 29, 1977.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	22.61	22.66	e22.20	22.64	22.53	22.57	21.72	19.91	18.23	22.49	22.29	22.14
10	22.61	22.64	22.54	22.56	22.50	22.56	21.56	19.45	18.48	22.40	22.44	22.11
15	22.66	22.63	22.61	22.56	22.57	22.50	21.44	18.84	18.32	22.41	22.31	22.27
20	22.65	22.55	22.61	22.60	22.55	22.38	21.12	18.26	18.17	22.47	22.44	22.51
25	22.64	21.52	22.60	22.37	22.50	22.26	20.68	17.96	20.19	22.49	22.44	22.31
EOM	22.58	21.86	22.62	22.46	22.50	21.97	20.24	18.27	21.79	22.19	22.49	22.29
MAX	22.66	22.66	22.71	22.67	22.57	22.59	21.94	20.24	21.79	22.62	22.71	22.52

CAL YR 1988 MAX 22.76
WTR YR 1989 MAX 22.71

e Estimated

HILLSBOROUGH COUNTY

WELL NUMBER.--280145082132501. Tampa Deep Well 15 near Dover, FL.

LOCATION.--Lat 28°01'50", long 82°13'25", in NE¼SE¼ sec.20, T.28 S., R.21 E., Hydrologic Unit 03100205, 0.3 mi north of Interstate 4, and 2.5 mi north of Dover. Owner: Southwest Florida Water Management District.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 16 in., depth 413 ft, cased to 67 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 69.86 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 4.09 ft above land-surface datum. Prior to Jan. 9, 1987, top of recorder shelter floor, 4.11 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby irrigation wells. Extremes may have been exceeded during periods of missing record.

PERIOD OF RECORD.--November 1958 to current year, incomplete. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 71.91 ft NGVD, Sept. 15, 1959; lowest, 46.90 ft estimated, NGVD, Jan. 23, 1985.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	64.62	58.41	63.38	62.09	61.70	58.63	58.36	55.98	51.41	57.29	57.96	57.83
10	62.44	60.02	63.02	61.39	60.99	59.60	57.75	54.83	53.05	57.46	57.09	58.01
15	59.89	60.00	63.59	61.07	59.95	58.21	58.07	54.68	52.73	57.64	57.89	57.07
20	58.14	59.44	59.46	61.22	59.30	57.14	58.08	53.11	53.77	57.83	57.49	57.72
25	57.84	62.65	62.01	62.84	55.93	57.71	57.28	52.59	55.68	58.11	57.58	58.16
EOM	56.58	63.65	62.36	62.38	55.12	57.68	55.65	51.96	56.47	58.10	57.35	58.22
MAX	64.98	63.65	63.73	62.93	62.26	59.60	58.54	56.53	56.47	58.24	58.23	58.63

CAL YR 1988 MAX 66.99
WTR YR 1989 MAX 64.98

WELL NUMBER.--280148082203801. USCE Well TBC-04 near Temple Terrace, FL.

LOCATION.--Lat 28°01'48", long 82°20'38", in NE¼SW¼ sec.19, T.28 S., R.20 E., Hydrologic Unit 03100206, 2.5 mi north of intersection Interstate 4 and U. S. Highway 301, and 3.0 mi east of Temple Terrace. Owner: Southwest Florida Water Management District.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 110 ft, cased to 33 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 33.88 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 2.70 ft above land-surface datum. Prior to Feb. 24, 1977, top of casing, 2.00 ft above land-surface datum; Feb. 24, 1977, to Jan. 27, 1981, top of casing, 2.50 ft above land-surface datum.

REMARKS.--Land surface changed by spoil bank created by Tampa Bypass Canal construction.

COOPERATION.--Some records provided by Southwest Florida Water Management District.

PERIOD OF RECORD.--May, December 1975; February to June 1976 (monthly); July 1976 to September 1977 (weekly), incomplete; October 1977 to January 1981 (monthly), incomplete; January 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.75 ft NGVD, Oct. 24, 1979; lowest measured, 13.28 ft NGVD, May 6, 1976.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	19.50	18.60	18.44	18.23	17.94	17.59	17.04	16.27	14.80	16.73	17.33	17.56
10	19.31	18.46	18.44	18.12	17.82	17.52	16.93	16.07	14.75	16.86	17.38	17.64
15	19.10	18.33	18.56	18.03	17.75	17.45	16.87	15.90	15.01	16.98	17.43	17.60
20	18.94	18.20	18.49	17.97	17.71	17.36	16.75	15.71	15.17	17.06	17.40	17.59
25	18.78	18.27	18.45	18.06	17.57	17.29	16.54	15.47	15.75	17.34	17.41	17.67
EOM	18.58	18.35	18.32	18.05	17.55	17.17	16.39	15.16	16.43	17.35	17.52	17.65
MAX	19.55	18.75	18.61	18.32	18.02	17.65	17.13	16.39	16.43	17.36	17.60	17.67

CAL YR 1988 MAX 19.58
WTR YR 1989 MAX 19.55

HILLSBOROUGH COUNTY

WELL NUMBER.--280203082202301. USCE Well TBC-03 near Temple Terrace, FL.

LOCATION.--Lat 28°02'03", long 82°20'23", in SW¼NE¼ sec.19, T.28 S., R.20 E., Hydrologic Unit 03100206, 2.8 mi north of intersection Interstate 4 and U. S. Highway 301, and 3.3 mi east of Temple Terrace. Owner: Southwest Florida Water Management District.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 100 ft, cased to 37 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 36.18 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1978, land-surface datum was considered to be 30 ft, from topographic map. See PERIOD OF RECORD. Measuring point: Top of recorder shelter floor, 4.17 ft above land-surface datum. Prior to Jan. 7, 1981, top of casing, 3.00 ft above land-surface datum.

COOPERATION.--Some records provided by Southwest Florida Water Management District.

PERIOD OF RECORD.--August 1975 to June 1976 (monthly), incomplete; July 1976 to September 1977 (weekly), incomplete; October 1977 to December 1980 (twice monthly); January 1981 to current year. The figures of water level as elevation in feet, NGVD prior to Oct 1, 1978, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of +6.18 ft. Revised records are in files of the Geological Survey. See DATUM.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.61 ft NGVD, Oct. 4, 1979; lowest daily maximum water level, 11.63 ft NGVD, Jan. 23, 1981.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	19.43	18.54	18.43	e18.25	e18.45	e17.55	17.02	16.37	14.93	e16.20	e17.05	17.23
10	19.27	18.40	e18.75	e18.30	e18.25	17.46	16.95	16.21	14.83	e16.45	17.06	17.30
15	19.08	18.29	e18.80	e18.25	e18.05	17.39	15.88	16.06	e15.10	e16.45	17.08	17.28
20	18.92	18.15	e18.50	e18.55	e17.85	17.30	16.75	15.89	e15.45	e16.60	17.10	17.27
25	18.75	18.31	e18.25	e18.70	e17.85	17.23	16.60	15.70	e15.70	e16.75	17.13	17.37
EOM	18.56	18.32	e18.35	e18.60	e17.70	17.14	16.46	15.30	e15.95	e16.95	17.19	17.33
MAX	19.47	18.80	18.80	18.80	18.55	17.70	17.12	16.46	15.95	16.95	17.30	17.37

CAL YR 1988 MAX 19.59
WTR YR 1989 MAX 19.47

e Estimated

WELL NUMBER.--280209082280301. ROMP 66 Deep Well at Sulphur Springs, FL.

LOCATION.--Lat 28°02'09", long 82°28'03", in SW¼NW¼ sec.24, T.28 S., R.18 E., Hydrologic Unit 03100205, 50 ft east of North Boulevard, and 0.2 mi north of intersection Busch Boulevard and North Boulevard in Sulphur Springs. Owner: Southwest Florida Water Management District.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 8 in., depth 250 ft, cased to 42 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 38.08 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 4.00 ft above land-surface datum.

PERIOD OF RECORD.--August 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 24.07 ft NGVD, Sept. 30, 1979; lowest, 12.04 ft NGVD, June 29, 1977.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	21.61	19.34	20.12	18.97	18.79	18.12	17.28	16.38	15.24	18.11	19.52	21.35
10	21.16	19.17	19.79	18.75	18.52	17.85	17.13	16.11	15.23	18.29	19.56	21.67
15	20.72	18.97	19.81	18.57	18.31	17.76	17.08	15.92	15.48	18.30	19.66	21.33
20	20.29	18.69	19.59	18.46	18.24	17.62	16.92	15.68	16.20	18.38	19.50	21.07
25	19.87	20.16	19.39	18.91	18.11	17.56	16.66	15.52	16.80	18.75	19.97	21.25
EOM	19.50	20.39	19.18	19.00	18.08	17.43	16.43	15.39	17.44	19.31	20.50	21.27
MAX	21.95	20.39	20.36	19.13	18.96	18.14	17.39	16.44	17.44	19.31	20.50	21.67

CAL YR 1988 MAX 23.39
WTR YR 1989 MAX 21.95

HILLSBOROUGH COUNTY

WELL NUMBER.--280230082205601. USCE Well TBC-02 near Temple Terrace, FL.

LOCATION.--Lat 28°02'30", long 82°20'56", in SW¼SW¼ sec.18, T.28 S., R.20 E., Hydrologic Unit 03100206, 1.3 mi southwest of intersection State Highway 582 and U. S. Highway 301, and 2.8 mi northeast of Temple Terrace. Owner: Southwest Florida Water Management District.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 100 ft, cased to 40 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 48.75 ft above National Geodetic Vertical Datum of 1929 (levels by West Coast Regional Water Supply Authority). Prior to May 5, 1981, land-surface datum was considered to be 43 ft, from topographic map. See PERIOD OF RECORD. Measuring point: Top of recorder shelter floor, 3.85 ft above land-surface datum. Prior to May 5, 1981, top of casing, 3.0 ft above land-surface datum; May 5, 1981, to Aug. 18, 1982, top of casing, 3.55 ft above land-surface datum.

OOPERATION.--Some records provided by Southwest Florida Water Management District.

PERIOD OF RECORD.--August 1975 to December 1975 (monthly), incomplete; December 1976 to September 1977 (weekly), incomplete; October 1977 to September 1978 (twice monthly); October 1978 to September 1979 (monthly); October 1979 to September 1980 (bimonthly), incomplete; May 1981 to September 1982 (bimonthly); October 1982 to current year. Records of water levels prior to December 1976 are available in files of the Geological Survey. The figures of water level as elevation in feet, NGVD prior to May 5, 1981, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of +5.65 ft. Revised records are in files of the Geological Survey. See DATUM.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 26.21 ft NGVD, Apr. 12, 1987; lowest, 15.65 ft estimated, NGVD, June 10, 1985.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	e25.20	22.42	e23.60	22.84	23.39	22.06	20.65	19.41	17.73	e18.90	e20.25	20.95
10	e23.70	22.31	23.13	22.81	23.25	21.88	20.44	19.18	17.50	e19.20	e20.40	21.20
15	23.40	22.13	23.28	22.75	22.96	21.65	20.26	18.91	17.36	e19.45	e20.60	21.33
20	23.03	21.94	23.26	22.71	22.69	21.37	20.09	18.60	17.28	e19.70	20.66	21.35
25	22.78	e23.40	23.07	23.33	22.46	21.19	19.90	18.33	17.38	e19.95	20.71	21.33
EOM	22.53	e24.60	22.86	23.71	22.25	20.93	19.63	18.00	18.07	e20.20	20.86	21.31
MAX	25.20	24.70	24.50	23.80	23.60	22.20	20.88	19.57	18.07	20.20	20.86	21.35

CAL YR 1988 MAX 25.30
WTR YR 1989 MAX 25.20

e Estimated

HILLSBOROUGH COUNTY

WELL NUMBER.--280241082231401. Temple Terrace Well 4 at Temple Terrace, FL.

LOCATION.--Lat 28°02'41", long 82°23'14", in NE¼SE¼ sec.15, T.28 S., R.19 E., Hydrologic Unit 03100205, 500 ft south of Whiteway Drive, and 0.3 mi east of State Highway 583 at Temple Terrace. Owner: City of Temple Terrace.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, domestic, artesian well, diameter 8 in., depth 510 ft, cased to 87 ft.

INSTRUMENTATION.--Monthly measurement with steel tape.

DATUM.--Land-surface datum is 80.15 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 2 in. access pipe, 2.12 ft above land-surface datum. Prior to July 31, 1979, top of 1 in. coupling, 1.72 ft above land-surface datum; July 31, 1979, to Oct. 9, 1979, top of 12 in. casing, 1.53 ft above land-surface datum; Oct. 9, 1979, to Mar. 21, 1983, top of 1 in. coupling, 1.72 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--April 1965 to September 1977 (bimonthly); October 1977 to current year (monthly), incomplete. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25.38 ft NGVD, Oct. 9, 1979; lowest measured, 14.95 ft NGVD, July 1, 1977.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			APR		
04...	1235	23.19	07...	1430	20.22
NOV			MAY		
09...	1500	20.52	02...	1435	18.92
DEC			JUL		
08...	1210	21.41	14...	1400	22.06
JAN			AUG		
17...	1210	21.17	08...	1610	20.92
FEB			SEP		
13...	0950	21.03	05...	1100	22.55
MAR					
06...	1100	20.45			

HILLSBOROUGH COUNTY

WELL NUMBER.--280243082203701. USCE Well TBC-01 near Temple Terrace, FL.

LOCATION.--Lat 28°02'43", long 82°20'37", in NW¼SE¼ sec.18, T.28 S., R.20 E., Hydrologic Unit 03100206, 2.9 mi east of Temple Terrace, and 3.3 mi north of intersection Interstate 4 and U. S. Highway 301. Owner: Southwest Florida Water Management District.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 110 ft, cased to 46 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is is 43.34 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1983, land-surface datum was considered to be 45 ft, from topographic map. See PERIOD OF RECORD. Measuring point: Top of casing, 3.0 ft above land-surface datum.

COOPERATION.--Some records, August 1975 to November 1977, were provided by Southwest Florida Water Management District and reviewed by Geological Survey.

PERIOD OF RECORD.--August 1975 to June 1976 (twice monthly), incomplete; July 1976 to November 1977 (weekly), incomplete; December 1977 to current year. The figures of water level as elevation in feet, NGVD prior to Oct. 1, 1983, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of -1.66 ft. Revised records are in files of the Geological Survey. See DATUM.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 29.67 ft NGVD, Sept. 8, 1988; lowest, 15.56 ft NGVD, Jan. 30, 1981.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	e26.30	23.58	25.49	23.85	23.90	22.58	21.65	20.29	18.37	19.68	21.12	21.84
10	24.65	23.47	24.46	23.71	23.69	22.54	21.76	20.01	18.13	19.91	21.21	21.92
15	24.26	23.28	24.99	23.54	23.41	22.38	21.54	19.67	18.04	20.19	21.37	22.29
20	23.99	23.10	24.67	23.38	23.15	22.14	21.25	19.30	17.96	20.39	21.44	22.27
25	23.84	26.48	24.28	24.71	22.91	22.05	20.98	18.96	18.26	20.79	21.49	22.31
EOM	23.63	26.62	23.90	24.60	22.70	21.86	20.57	18.65	19.33	21.02	21.66	22.26
MAX	26.30	26.88	26.38	25.23	24.35	22.78	21.92	20.55	19.33	21.02	21.67	22.32

CAL YR 1988 MAX 29.67
WTR YR 1989 MAX 26.88

e Estimated

HILLSBOROUGH COUNTY

WELL NUMBER.--280316082345801. St. Petersburg E-104 Deep Well near Citrus Park, FL.

LOCATION.--Lat 28°03'16", long 82°34'58", in NE¼NE¼ sec.15, T.28 S., R.17 E., Hydrologic Unit 03100206, 25 ft west of State Highway 589, and 4.5 mi south of Citrus Park. Owner: City of St. Petersburg.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 1,120 ft, cased to 715 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 23.98 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of metal plate below recorder shelter floor, 1.69 ft above land-surface datum.

PERIOD OF RECORD.--November 1968 to April 1983 (semiannually), incomplete; May 1983 to September 1989 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.77 ft NGVD, Sept. 18, 1979; lowest daily maximum water level, 12.88 ft NGVD, June 6, 1985.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	19.07	18.57	20.44	19.56	20.01	20.12	17.33	16.98	15.36	20.45	19.32	21.39
10	18.60	18.06	20.26	19.47	19.58	19.74	17.00	17.11	17.18	18.48	20.43	21.45
15	18.42	19.43	20.42	17.48	19.55	17.42	16.21	15.46	15.62	19.94	21.10	21.15
20	18.95	19.19	20.30	18.40	19.26	16.97	17.65	14.77	16.80	20.37	20.55	20.62
25	18.86	20.76	19.81	18.73	18.84	18.76	17.16	15.40	18.53	19.95	19.79	20.57
EOM	18.48	21.04	19.56	18.80	18.75	18.79	15.61	15.33	19.18	20.76	20.36	20.62
MAX	20.00	21.29	21.04	19.67	20.02	20.12	18.79	17.32	19.18	20.76	21.17	21.50

CAL YR 1988 MAX 22.04
WTR YR 1989 MAX 21.50

e Estimated

HILLSBOROUGH COUNTY

WELL NUMBER.--280320082203801. ROMP 67-1 Avon Park Well near Temple Terrace, FL.

LOCATION.--Lat 28°03'20", long 82°20'38", in NW¼SE¼ sec.7, T.28 S., R.20 E., Hydrologic Unit 03100205, 0.1 mi north of Fowler Avenue, and 2.0 mi east of Temple Terrace. Owner: Southwest Florida Water Management District.

AQUIFER.--Avon Park formation of Eocene Age, Geologic Unit 124 AVPK.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 8 in., depth 490 ft, cased to 440 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 42.97 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 4.95 ft above land-surface datum.

PERIOD OF RECORD.--September 1979 to current year. Records of water levels prior to October 1979 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 31.78 ft NGVD, Oct. 2, 1979; lowest, 18.18 ft NGVD, June 10, 1985.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	26.74	24.95	26.11	24.53	24.20	24.25	22.98	21.37	19.69	21.82	22.65	23.47
10	26.19	24.83	25.34	24.33	24.76	24.13	22.65	21.03	19.55	21.91	22.60	23.99
15	25.80	24.69	25.41	24.15	24.59	23.91	22.49	20.75	19.56	22.07	22.83	23.75
20	25.47	24.49	25.24	23.99	24.39	23.67	22.21	20.40	19.55	22.19	22.87	23.64
25	25.24	26.37	24.99	24.37	24.19	23.54	21.86	20.13	20.08	22.59	22.94	23.84
EOM	24.92	26.73	24.71	24.55	24.19	23.23	21.57	19.92	21.25	22.68	23.12	23.80
MAX	27.03	26.77	26.62	24.70	24.76	24.31	23.16	21.54	21.25	22.68	23.21	23.99

CAL YR 1988 MAX 28.37
WTR YR 1989 MAX 27.03

WELL NUMBER.--280320082203802. ROMP 67-2 Tampa Limestone Well near Temple Terrace, FL.

LOCATION.--Lat 28°03'20", long 82°20'38", in NW¼SE¼ sec.7, T.28 S., R.20 E., Hydrologic Unit 03100205, 0.1 mi north of Fowler Avenue, and 2.0 mi east of Temple Terrace. Owner: Southwest Florida Water Management District.

AQUIFER.--Tampa limestone of Miocene Age, Geologic Unit 122 TAMP.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 8 in., depth 141 ft, cased to 70 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 42.97 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.61 ft above land-surface datum.

PERIOD OF RECORD.--September 1979 to current year. Records of water levels prior to October 1979 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 32.62 ft NGVD, Oct. 4, 1979; lowest, 16.87 ft NGVD, June 13, 1985.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	27.60	24.74	25.87	24.53	24.20	23.12	22.02	20.58	18.79	20.14	21.50	22.12
10	26.66	24.54	25.34	24.33	23.98	23.02	21.78	20.27	18.59	20.39	21.52	22.51
15	26.10	24.29	25.41	24.15	23.78	22.85	21.60	20.00	18.50	20.61	21.70	22.58
20	25.64	24.07	25.24	23.99	23.56	22.60	21.39	19.67	18.41	20.80	21.73	22.53
25	25.29	25.65	24.99	24.37	23.19	22.49	21.09	19.37	18.69	21.15	21.78	22.55
EOM	24.89	26.27	24.71	24.55	23.18	22.25	20.80	19.09	19.59	21.41	21.95	22.55
MAX	28.03	26.27	26.23	24.70	24.45	23.22	22.17	20.76	19.59	21.41	21.95	22.61

CAL YR 1988 MAX 29.82
WTR YR 1989 MAX 28.03

HILLSBOROUGH COUNTY

WELL NUMBER.--280503082143701. ROMP 68-1 Avon Park Well near Antioch, FL.

LOCATION.--Lat 28°05'03", long 82°14'37", in SW¼SW¼ sec.31, T.27 S., R.21 E., Hydrologic Unit 03100205, 2.0 mi north of Antioch, and 9.4 mi southwest of Zephyrhills. Owner: Southwest Florida Water Management District.

AQUIFER.--Avon Park formation of Eocene Age, Geologic Unit 124 AVPK.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 500 ft, cased to 480 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 56.00 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.39 ft above land-surface datum.

PERIOD OF RECORD.--August 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 51.12 ft NGVD, Sept. 6, 7, 8, 1985; lowest, 40.74 ft NGVD, June 7, 1985.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	49.46	47.25	49.18	48.43	48.16	47.14	46.43	44.49	42.03	43.70	43.27	43.32
10	48.90	47.67	48.93	47.72	47.96	47.28	46.19	43.53	42.10	43.70	43.23	43.74
15	48.28	47.31	49.38	47.76	47.65	46.85	45.97	43.41	41.63	43.53	43.46	43.47
20	47.39	47.09	48.78	47.77	47.18	46.61	45.61	42.60	42.01	43.80	43.34	43.59
25	47.41	48.81	48.75	48.77	46.80	46.22	45.04	42.84	42.97	43.85	43.30	43.97
EOM	46.75	49.32	48.61	48.69	46.01	46.44	44.30	42.47	43.30	43.56	43.05	44.07
MAX	49.55	49.32	49.45	48.85	48.55	47.32	46.54	44.76	43.30	43.86	43.64	44.17

CAL YR 1988 MAX 51.09
WTR YR 1989 MAX 49.55

WELL NUMBER.--280503082143702. ROMP 68-2 Suwannee Well near Antioch, FL.

LOCATION.--Lat 28°05'03", long 82°14'37", in SW¼SW¼ sec.31, T.27 S., R.21 E., Hydrologic Unit 03100205, 2.0 mi north of Antioch, and 9.4 mi southwest of Zephyrhills. Owner: Southwest Florida Water Management District.

AQUIFER.--Suwannee limestone of Oligocene Age, Geologic Unit 123 SWNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 7 in., depth 220 ft, cased to 120 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 56.00 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.43 ft above land-surface datum.

PERIOD OF RECORD.--August 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 51.58 ft NGVD, Sept. 6, 1985; lowest, 41.46 ft NGVD, June 7, 1985.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	49.82	47.73	49.54	48.81	48.56	47.58	46.86	44.86	42.54	44.13	43.70	43.72
10	49.26	48.08	49.28	48.18	48.32	47.69	46.63	43.94	42.62	44.13	43.60	44.12
15	48.68	47.74	49.74	48.19	48.04	47.27	46.42	43.97	42.28	43.97	43.82	43.85
20	47.85	47.52	49.21	48.16	47.58	47.06	46.06	43.21	42.60	44.22	43.71	43.95
25	47.86	49.28	49.14	49.19	47.25	46.71	45.52	43.38	43.46	44.23	43.68	44.30
EOM	47.23	49.68	49.01	49.07	46.62	46.89	44.86	42.95	43.74	43.92	43.50	44.41
MAX	49.85	49.68	49.80	49.24	48.95	47.74	46.97	45.23	43.74	44.25	44.01	44.47

CAL YR 1988 MAX 51.45
WTR YR 1989 MAX 49.85

HILLSBOROUGH COUNTY

WELL NUMBER.--280548082355701. St. Petersburg Deep Well E-100 near Citrus Park, FL.

LOCATION.--Lat 28°05'48", long 82°35'55", in NW¼NW¼ sec.34, T.27 S., R.17 E., Hydrologic Unit 03100206, at Cosme Water Plant, 1.2 mi west of State Highway 587, and 2.0 mi northwest of Citrus Park. Owner: City of St. Petersburg.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 10 in., depth 1,200 ft, cased to 656 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 41.23 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 1.60 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--April 1972 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey.

REVISED RECORDS.--WDR FL-75-3: 1975.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 32.14 ft NGVD, Oct. 1, 1979; lowest, 16.27 ft NGVD, Apr. 20, 1972.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	25.56	24.07	26.62	23.93	24.04	23.60	21.47	19.63	20.88	24.03	23.50	23.88
10	24.88	23.67	24.80	22.75	24.30	23.81	20.67	19.28	21.95	22.33	22.32	24.22
15	24.46	23.53	25.66	22.73	23.00	22.23	22.38	18.67	20.68	22.72	23.06	24.18
20	22.90	22.78	26.46	23.08	22.89	21.40	21.15	19.25	22.02	23.09	22.59	23.68
25	23.39	25.71	24.30	25.32	23.26	23.69	20.11	19.33	22.78	23.18	23.83	23.86
EOM	22.15	26.41	23.75	23.77	22.43	22.43	20.21	20.89	24.60	23.21	22.51	24.04
MAX	25.92	26.71	26.88	26.14	24.30	24.54	22.70	20.89	24.60	24.78	24.97	24.72

CAL YR 1988 MAX 27.39
WTR YR 1989 MAX 26.88

WELL NUMBER.--280550082202901. Morris Bridge Deep Well 10 near Branchton, FL.

LOCATION.--Lat 28°05'50", long 82°20'29", in NW¼NE¼ sec.31, T.27 S., R.20 E., Hydrologic Unit 03100205, 1.2 mi west of State Highway 579, and 2.5 mi southwest of Branchton. Owner: U. S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 500 ft, cased to 90 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 29.91 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of flange, 3.00 ft above land-surface datum.

PERIOD OF RECORD.--March 1974 to September 1988; October 1988 to September 1989 (bimonthly). Prior to October 1977, published as Tampa Deep Well 10 near Branchton.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 32.79 ft NGVD, Sept. 9, 1988; lowest, 18.20 ft NGVD, May 31, June 1, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
09...	1411	27.23	15...	1248	20.68
21...	1339	25.02	JUN		
DEC			13...	1639	20.65
21...	1243	28.27	AUG		
FEB			30...	0912	26.41
06...	1245	28.39			
APR					
04...	1225	24.68			

HILLSBOROUGH COUNTY

WELL NUMBER.--280550082355002. St. Petersburg Shallow Well 1 C-6 near Citrus Park, FL.

LOCATION.--Lat 28°05'50", long 82°35'50", in NW¼NW¼ sec.34, T.27 S., R.17 E., Hydrologic Unit 03100206, 1.1 mi west of State Highway 587, and 2.0 mi northwest of Citrus Park. Owner: City of St. Petersburg.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 23 ft, cased to 21 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 43.07 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of metal plate below shelter floor, 1.60 ft above land-surface datum.

PERIOD OF RECORD.--January 1973 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 42.72 ft NGVD, Sept. 8, 1988; lowest, 31.91 ft NGVD, July 20, 1973.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	38.95	37.69	39.00	37.94	37.86	37.17	36.73	36.52	35.58	36.71	37.48	37.94
10	38.44	37.63	38.72	37.74	37.68	37.06	36.64	36.40	35.52	36.78	37.74	37.69
15	38.37	37.78	38.83	37.63	37.56	36.96	36.59	36.35	35.44	36.61	37.84	37.41
20	38.15	37.50	38.47	37.47	37.38	36.85	36.99	36.13	35.78	36.91	37.79	37.46
25	37.94	40.05	38.30	38.35	37.18	36.86	36.83	35.95	36.28	37.29	37.96	37.77
EOM	37.70	39.41	38.07	38.10	37.08	36.77	36.60	35.75	36.52	37.51	37.76	38.00
MAX	38.95	40.19	39.34	38.35	38.04	37.17	36.99	36.60	36.52	37.51	37.96	38.00

CAL YR 1988 MAX 42.72
WTR YR 1989 MAX 40.19

WELL NUMBER.--280603082385401. St. Petersburg Deep Well E-103 near Oldsmar, FL.

LOCATION.--Lat 28°06'03", long 82°38'54", in SW¼SW¼ sec.30, T.27 S., R.17 E., Hydrologic Unit 03100206, 2.5 mi northeast of intersection Race Track Road and County Line Road, and 4.0 mi northeast of Oldsmar. Owner: City of St. Petersburg.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 1,111 ft, cased to 605 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 21.26 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 4.60 ft above land-surface datum.

REMARKS.--Prior to May 1983, water samples were collected at range of depths 550-767 ft, currently at depth of 1,106 ft.

PERIOD OF RECORD.--October 1965 to April 1983 (semiannually), incomplete; May 1983 to July 1989 (incomplete), discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.99 ft NGVD, Oct. 14, 1965; lowest daily maximum water level, 13.70 ft NGVD, June 5, 8, 1985.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	19.04	18.17	19.39	18.03	18.30	18.30	16.60	15.74	15.49	18.18	---	---
10	17.99	17.65	19.39	17.98	18.06	18.07	16.91	15.47	16.35	17.60	---	---
15	18.35	17.95	19.60	17.59	17.78	17.21	16.60	15.23	15.30	17.31	---	---
20	18.21	17.86	19.17	17.63	17.27	16.79	16.67	14.64	16.26	17.73	---	---
25	18.04	19.62	18.42	18.50	17.36	17.05	16.00	14.92	17.36	18.05	---	---
EOM	17.41	20.02	18.17	18.40	17.35	17.24	15.64	15.38	17.88	---	---	---
MAX	19.04	20.05	19.85	18.68	18.30	18.30	---	15.87	17.88	---	---	---

CAL YR 1988 MAX 21.20

HILLSBOROUGH COUNTY

WELL NUMBER.--280605082184101. Morris Bridge Deep Well 12 near Branchton, FL.

LOCATION.--Lat 28°06'05", long 82°18'41", in SW¼SE¼ sec.28, T.27 S., R.20 E., Hydrologic Unit 03100205, 500 ft west of State Highway 579, and 2.9 mi southwest of Branchton. Owner: U. S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 520 ft, cased to 238 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 31.63 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 2.22 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells. Well also sampled for water quality.

PERIOD OF RECORD.--April 1978 to September 1988; October 1988 to September 1989 (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 33.40 ft NGVD, Oct. 2, 1979; lowest, 18.88 ft NGVD, June 14, 1985.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
09...	1030	27.89	15...	0940	21.47
21...	1129	26.35	25...	0957	20.75
DEC			JUN		
21...	1010	29.11	13...	1407	21.12
FEB			AUG		
06...	0954	28.57	30...	0800	25.95
APR			SEP		
04...	0950	25.41	12...	1532	26.93

WELL NUMBER.--280605082184102. Morris Bridge Shallow Well 12 near Branchton, FL.

LOCATION.--Lat 28°06'05", long 82°18'41", in SW¼SE¼ sec.28, T.27 S., R.20 E., Hydrologic Unit 03100205, 500 ft west of State Highway 579, and 2.9 mi southwest of Branchton. Owner: U. S. Geological Survey.

AQUIFER.--Tampa limestone of Miocene Age, Geologic Unit 122 TAMP.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 25 ft, cased to 20 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 31.63 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.22 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--April 1978 to October 1980; November 1980 to current year (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 33.50 ft estimated, NGVD, Sept. 25, 1979; lowest measured, 19.41 ft NGVD, May 18, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
09...	1020	27.65	15...	0949	21.35
DEC			JUN		
21...	1021	28.94	13...	1412	20.93
FEB			AUG		
06...	1003	28.33	30...	0807	25.66
APR			SEP		
04...	1007	25.25	12...	1530	26.63

HILLSBOROUGH COUNTY

WELL NUMBER.--280631082193802. Morris Bridge Shallow Well 7 near Branchton, FL.

LOCATION.--Lat 28°06'31", long 82°19'38", in SW¼NE¼ sec.29, T.27 S., R.20 E., Hydrologic Unit 03100205, 1.4 mi west of State Highway 579, and 3.0 mi southwest of Branchton. Owner: U. S. Geological Survey.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 12 ft, cased to 10 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 33.92 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of male adapter, 4.03 ft above land-surface datum. Prior to Sept. 9, 1985, top of male adapter, 4.28 ft above land-surface datum; Sept. 9, to Dec. 2, 1985, top of male adapter, 1.06 ft above land-surface datum.

PERIOD OF RECORD.--September 1973 to current year (bimonthly), incomplete. Records of water levels prior to January 1974 are available in files of the Geological Survey. Prior to October 1977, published as Tampa Shallow Well 7 near Branchton.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 34.32 ft NGVD, Mar. 9, 1983; well observed dry May 13, 1985.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
09...	1207	31.63	15...	1117	27.52
DEC			JUN		
21...	1215	32.13	13...	1618	26.28
FEB			AUG		
06...	1223	31.58	30...	0858	28.64
APR			SEP		
04...	1205	29.51	11...	1410	29.75

WELL NUMBER.--280639082211001. Morris Bridge Deep Well 11 near Branchton, FL.

LOCATION.--Lat 28°06'39", long 82°21'10", in NE¼NE¼ sec.25, T.27 S., R.19 E., Hydrologic Unit 03100205, 2.0 mi east of State Highway 581, and 4.3 mi southwest of Branchton. Owner: City of Tampa.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 500 ft, cased to 127 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 35.13 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of flange, 3.00 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--March 1974 to current year. Prior to October 1977, published as Tampa Deep Well 11 near Branchton.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 35.47 ft NGVD, Sept. 10, 1988; lowest, 18.36 ft NGVD, June 14, 1985.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	30.72	27.57	32.40	32.59	32.76	31.73	26.00	23.62	21.62	28.72	29.66	31.00
10	28.74	28.95	30.03	31.85	32.47	31.83	25.81	23.83	21.39	28.86	29.19	32.09
15	27.80	28.83	33.25	31.89	30.79	29.35	25.40	21.27	22.96	28.23	30.23	31.25
20	27.32	27.66	33.11	31.97	28.58	28.32	24.69	20.75	24.34	28.14	30.42	31.04
25	26.78	33.37	33.04	33.57	31.07	30.75	23.04	20.61	25.36	29.75	30.64	31.76
EOM	26.14	33.72	32.72	33.22	30.67	26.93	22.40	21.93	26.69	29.98	30.09	30.22
MAX	31.26	33.80	33.71	33.62	32.89	31.89	28.64	23.94	26.69	30.08	30.77	32.19

CAL YR 1988 MAX 35.47
WTR YR 1989 MAX 33.80

HILLSBOROUGH COUNTY

WELL NUMBER.--280649082191402. Morris Bridge Shallow Well 4 near Branchton, FL.

LOCATION.--Lat 28°06'57", long 82°19'26", in SE¼SE¼ sec.20, T.27 S., R.20 E., Hydrologic Unit 03100205, 1.2 mi west of State Highway 579, and 2.5 mi southwest of Branchton. Owner: U. S. Geological Survey.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 16.5 ft, cased to 15 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 35.22 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of male adapter, 2.48 ft above land-surface datum.

PERIOD OF RECORD.--May 1972 to current year (bimonthly), incomplete. Records of water levels prior to January 1974 are available in files of the Geological Survey. Prior to October 1977, published as Tampa Shallow Well 4 near Branchton.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 34.84 ft NGVD, Mar. 10, 1978; lowest measured, 21.20 ft NGVD, July 1, 1985.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
10...	1145	31.17	15...	1616	26.11
DEC			JUN		
22...	1022	32.19	13...	1804	24.54
FEB			AUG		
06...	1407	31.67	30...	1134	27.13
APR			SEP		
04...	1355	28.54	11...	1141	28.00

WELL NUMBER.--280651082202502. Morris Bridge Shallow Well 2 near Branchton, FL.

LOCATION.--Lat 28°06'52", long 82°20'25", in SW¼SE¼ sec.19, T.27 S., R.20 E., Hydrologic Unit 03100205, 2.4 mi west of State Highway 579, and 3.5 mi southwest of Branchton. Owner: U. S. Geological Survey.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 1.25 in., depth 10 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 38.15 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.75 ft above land-surface datum.

PERIOD OF RECORD.--March 1973 to current year (bimonthly), incomplete. Records of water levels prior to January 1974 are available in files of the Geological Survey. Prior to October 1977, published as Tampa Shallow Well 2 near Branchton.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 39.08 ft NGVD, July 1, 1974; well observed dry at times some years.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
10...	1029	32.80	15...	1401	30.61
DEC			JUN		
22...	1000	33.28	13...	1742	29.77
FEB			AUG		
06...	1344	33.84	30...	1015	30.13
APR			SEP		
04...	1330	33.46	11...	1058	30.98

HILLSBOROUGH COUNTY

WELL NUMBER.--280651082204302. Morris Bridge Shallow Well 1 near Branchton, FL.

LOCATION.--Lat 28°06'51", long 82°20'43", in SE¼SW¼ sec.19, T.27 S., R.20 E., Hydrologic Unit 03100205, 2.7 mi west of State Highway 579, and 3.8 mi southwest of Branchton. Owner: U. S. Geological Survey.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 1.25 in., depth 10 ft, cased to 8.5 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 38.96 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.12 ft above land-surface datum.

PERIOD OF RECORD.--December 1973 to current year (bimonthly), incomplete. Records of water levels prior to January 1974 are available in files of the Geological Survey. Prior to October 1977, published as Tampa Shallow Well 1 near Branchton.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 40.38 ft NGVD, Dec. 11, 1973; well observed dry May 13, 1985, June 13, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
10...	1016	36.65	15...	1340	32.49
DEC			JUN		
22...	0949	38.38	13...	1730	--
FEB			AUG		
06...	1332	37.91	30...	0953	37.32
APR			SEP		
04...	1317	35.34	11...	1200	39.13

Note.--Well observed dry on those dates indicated by dashes.

WELL NUMBER.--280652082195101. Morris Bridge Deep Well 3C near Branchton, FL.

LOCATION.--Lat 28°06'52", long 82°19'51", in SE¼SW¼ sec.20, T.27 S., R.20 E., Hydrologic Unit 03100205, 1.8 mi west of State Highway 579, and 3.0 mi southwest of Branchton. Owner: City of Tampa.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 1,037 ft, cased to 1,000 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 36.64 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District). Prior to Oct. 1, 1982, land-surface datum was considered to be 37.53 ft NGVD. See PERIOD OF RECORD. Measuring point: Top of recorder shelter floor, 3.76 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--April 1979 to current year. The figures of water level as elevation in feet, NGVD prior to Oct. 1, 1982, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of -0.89 ft. Revised records are in files of the Geological Survey. See DATUM.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 34.64 ft NGVD, Oct. 1, 1979; lowest, 20.99 ft NGVD, June 9, 1985.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	31.75	29.49	32.68	32.25	32.18	31.19	28.24	26.07	23.46	28.46	e29.30	30.05
10	30.91	29.84	31.77	31.52	31.85	31.37	27.74	25.57	23.83	28.53	e28.70	30.75
15	30.23	29.70	32.79	31.49	30.63	30.17	27.53	24.43	23.95	28.12	e29.40	30.22
20	29.87	28.95	32.73	31.61	29.63	29.54	27.03	23.68	24.61	28.02	e29.30	30.08
25	29.39	32.48	32.60	32.72	30.57	30.35	26.31	23.67	25.61	28.94	e29.60	30.59
EOM	28 81	33.17	32.34	32.59	30.62	28.95	25.63	23.49	26.43	e29.30	29.70	30.22
MAX	32.08	33.17	33.15	32.91	32.34	31.39	28.89	26.36	26.43	29.40	29.89	30.87

CAL YR 1988 MAX 34.53
WTR YR 1989 MAX 33.17

e Estimated

HILLSBOROUGH COUNTY

WELL NUMBER.--280655082193001. Morris Bridge Deep Well 3A near Branchton, FL.

LOCATION.--Lat 28°06'59", long 82°19'43", in NE¼SW¼ sec.20, T.27 S., R.20 E., Hydrologic Unit 03100205, 1.8 mi west of State Highway 579, and 2.7 mi southwest of Branchton. Owner: City of Tampa.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 14 in., depth 600 ft, cased to 100 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 38.36 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 4.17 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells. Record is equivalent to that for Tampa Deep Well 3 (280648082195201), available October 1971 to March 1975.

PERIOD OF RECORD.--March 1975 to January 1976; March 1978 to current year. Prior to March 1978, published as Tampa Deep Well 3A near Branchton.

REVISED RECORDS.--WDR FL-76-3: 1975.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 36.96 ft NGVD, Apr. 2, 3 1987; lowest, 19.34 ft NGVD, Mar. 19, 1985.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	32.37	29.68	34.10	34.10	34.21	33.05	28.54	25.51	22.57	28.25	29.87	31.28
10	31.23	29.95	32.96	32.43	33.83	33.15	27.79	25.36	23.06	29.17	29.62	32.08
15	30.37	30.22	34.82	33.25	31.46	31.45	27.44	23.40	23.96	28.27	30.47	31.60
20	29.88	28.89	34.62	33.31	30.12	30.65	26.77	22.64	25.18	28.75	30.43	31.46
25	29.24	34.85	34.51	34.97	31.84	32.05	25.69	22.43	25.08	29.76	30.72	32.02
EOM	28.58	35.05	34.23	34.61	31.54	29.42	25.11	22.20	27.00	30.14	30.11	31.17
MAX	32.87	35.17	35.05	35.08	34.21	33.19	30.36	26.46	27.00	30.14	30.88	32.33

CAL YR 1988 MAX 36.70
WTR YR 1989 MAX 35.17

WELL NUMBER.--280655082193002. Morris Bridge Shallow Well 3A near Branchton, FL.

LOCATION.--Lat 28°06'59", long 82°19'43", in SW¼SE¼ sec.20, T.27 S., R.20 E., Hydrologic Unit 03100205, 1.8 mi west of State Highway 579, and 2.7 mi southwest of Branchton. Owner: U. S. Geological Survey.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 16 ft, cased to 12 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 37.58 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1977, land-surface datum was considered to be 35.92 ft above NGVD. See PERIOD OF RECORD. Measuring point: Top of male adapter, 3.40 ft above land-surface datum.

PERIOD OF RECORD.--May 1972 to July 1976 (quarterly), incomplete; October 1976 to current year (bimonthly). Records of water levels prior to January 1974 are available in files of the Geological Survey. The figures of water level as elevation in feet, NGVD prior to Oct. 1, 1977, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of -0.22 ft. Revised records are in files of the Geological Survey. See DATUM. Prior to October 1977, published as Tampa Shallow Well 3A near Branchton.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 38.96 ft NGVD, Mar. 10, 1978; well observed dry May 13, 1985.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
10...	1133	35.64	15...	1628	31.75
DEC			JUN		
22...	1045	35.29	13...	1830	28.90
FEB			AUG		
06...	1429	35.82	30...	1140	34.02
APR			SEP		
04...	1415	33.86	11...	1130	35.00

HILLSBOROUGH COUNTY

WELL NUMBER.--280659082175201. Morris Bridge Deep Well 13 near Branchton, FL.

LOCATION.--Lat 28°06'55", long 82°17'52", in NE¼SW¼ sec.22, T.27 S., R.20 E., Hydrologic Unit 03100205, 0.2 mi southeast of Morris Bridge Road, and 1.4 mi southwest of Branchton. Owner: City of Tampa.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused irrigation, artesian well, diameter 8 in., depth 593 ft, cased to 50 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 37.88 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.05 ft above land-surface datum. Prior to Jan. 27, 1984, top of recorder shelter floor, 3.20 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--March 1976 to September 1980; January 1984 to current year. March to September 1976, published as Morris Bridge Road Well near Tampa; October 1976 to September 1977, published as Morris Bridge Road Well near Branchton.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 35.92 ft NGVD, Sept. 10, 1988; lowest, 20.82 ft NGVD, June 14, 1985.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	31.92	30.58	33.76	33.49	33.49	32.67	28.39	25.55	23.07	27.64	29.37	30.83
10	31.13	29.31	33.36	32.80	33.17	32.70	28.65	26.14	23.55	28.75	29.14	31.18
15	30.53	29.09	34.10	32.95	31.03	31.55	28.90	24.26	24.55	27.90	29.94	30.81
20	30.11	28.61	33.92	32.97	30.56	30.31	28.85	23.71	25.31	28.84	29.70	30.68
25	28.67	34.20	33.79	34.10	30.94	31.75	27.05	23.31	24.64	29.38	29.80	31.18
EOM	27.96	34.16	33.61	33.80	30.86	30.34	26.48	22.73	27.08	29.69	29.14	31.18
MAX	33.32	34.32	34.18	34.19	33.49	32.77	30.60	27.43	27.08	29.69	30.07	31.40

CAL YR 1988 MAX 35.92
WTR YR 1989 MAX 34.32

WELL NUMBER.--280659082175202. Morris Bridge Shallow Well 13 near Branchton, FL.

LOCATION.--Lat 28°06'55", long 82°17'52", in NE¼SW¼ sec.22, T.27 S., R.20 E., Hydrologic Unit 03100205, 0.2 mi southeast of Morris Bridge Road, and 1.4 mi southwest of Branchton. Owner: U. S. Geological Survey.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 1.25 in., depth 8.67 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 37.88 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of PVC adapter, 0.83 ft above land-surface datum. Prior to June 1, 1987, top of PVC adapter, 1.73 ft above land-surface datum.

PERIOD OF RECORD.--January 1984 to current year (bimonthly), incomplete.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 36.94 ft NGVD, Jan. 13, 1984; well observed dry May 1, 14, 1985, June 13, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			APR		
09...	1100	34.13	04...	1102	32.90
DEC			JUN		
21...	1121	35.24	13...	1444	--
FEB			AUG		
06...	1100	34.88	30...	1247	33.83

Note.--Well observed dry on those dates indicated by dashes.

HILLSBOROUGH COUNTY

WELL NUMBER.--280659082294302. Berger Deep Well near Citrus Park, FL.

LOCATION.--Lat 28°06'59", long 82°29'43", in SE¼SW¼ sec.22, T.27 S., R.18 E., Hydrologic Unit 03100205, 0.5 mi east of State Highway 597, and 5.4 mi northeast of Citrus Park. Owner: U. S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 134 ft, cased to 44 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 57.25 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 2.62 ft above land-surface datum. Prior to June 8, 1977, top of recorder shelter floor, 2.62 ft above land-surface datum; June 8, 1977, to Feb. 8, 1983, top of nipple, 2.49 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--November 1964 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey.

REVISED RECORDS.--WDR FL-76-3: 1975.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 51.71 ft NGVD, Sept. 27, 28, 1979; lowest, 33.20 ft NGVD, May 30, 1973.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	42.94	42.15	44.38	42.97	43.35	43.32	41.65	39.10	37.27	42.91	41.20	43.45
10	42.37	42.49	43.71	42.68	42.97	42.83	40.51	37.92	37.56	41.97	40.54	42.83
15	42.83	41.48	44.23	43.04	42.52	42.33	40.51	37.85	37.78	41.82	40.95	41.41
20	41.40	41.13	43.84	43.14	42.40	41.59	40.23	37.80	40.48	40.91	40.42	41.92
25	41.12	44.16	43.34	44.20	42.11	41.94	40.09	37.51	42.54	43.48	43.31	43.32
EOM	40.58	44.68	42.93	43.82	42.42	41.59	39.18	37.15	43.45	41.29	44.06	43.10
MAX	43.35	44.87	45.63	44.20	43.78	43.32	42.09	39.51	43.45	43.59	44.45	43.89

CAL YR 1988 MAX 45.71
WTR YR 1989 MAX 45.63

WELL NUMBER.--280702082302801. Hillsborough Deep Well 13 near Citrus Park, FL.

LOCATION.--Lat 28°07'02", long 82°30'28", in NW¼SE¼ sec.21., T.27 S., R.18 E., Hydrologic Unit 03100206, 1.5 mi west of State Highway 597, and 4.7 mi northeast of Citrus Park. Owner: City of St. Petersburg.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 12 in., depth 347 ft, cased to 46 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 55.82 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.04 ft above land-surface datum. Prior to Mar. 15, 1978, top of recorder shelter floor, 2.55 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells. Extremes may have been exceeded during periods of missing record.

PERIOD OF RECORD.--October 1930 to April 1935 (about monthly); January 1937 to November 1940 (about annually); June 1944 to current year, incomplete. Records of water levels prior to January 1956 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 50.90 ft NGVD, Sept. 23, 1947; lowest, 24.04 ft NGVD, May 11, 1971.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	36.31	36.05	38.82	36.42	36.71	35.90	34.27	32.05	30.20	35.86	34.76	37.05
10	36.26	36.88	37.38	35.86	36.36	35.47	33.42	30.35	32.35	36.52	32.92	35.71
15	36.80	34.99	37.81	36.45	35.76	35.32	34.58	30.85	33.15	35.39	33.38	33.64
20	35.16	34.77	37.62	36.24	35.51	34.62	32.98	31.01	34.80	34.57	32.54	34.83
25	34.78	37.55	36.90	37.51	36.51	34.49	33.12	29.89	35.92	38.28	36.56	35.79
EOM	34.41	38.29	36.63	36.99	36.46	35.00	31.87	29.39	37.27	33.59	37.84	37.02
MAX	36.90	38.40	40.24	37.67	37.27	36.10	35.14	32.30	38.37	38.55	39.44	38.38

CAL YR 1988 MAX 40.24
WTR YR 1989 MAX 40.24

HILLSBOROUGH COUNTY

WELL NUMBER.--280703082341701. James Deep Well 11 near Citrus Park, FL.

LOCATION.--Lat 28°07'03", long 82°34'17", in SW¼SE¼ sec.23, T.27 S., R.17 E., Hydrologic Unit 03100206, 0.5 mi east of State Highway 587, and 2.4 mi north of Citrus Park. Owner: City of St. Petersburg.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 16 in., depth 300 ft, cased to 76 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 57.37 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 8 in. extension, 2.28 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--January 1972 to September 1989 (discontinued). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 39.87 ft NGVD, Oct. 1, 1979; lowest, 19.00 ft NGVD, May 31, 1973.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	29.90	28.32	31.38	30.05	28.16	28.61	26.00	25.00	27.22	29.60	28.56	27.78
10	30.79	29.39	31.20	28.73	29.77	30.29	24.94	24.71	27.30	27.22	26.50	29.00
15	30.08	28.06	31.50	28.89	28.09	27.82	28.33	25.08	27.90	27.60	27.32	28.06
20	29.89	27.74	32.62	28.25	28.75	27.08	25.82	26.07	28.53	27.46	27.83	28.82
25	28.88	32.09	29.34	30.30	29.53	30.00	24.57	25.61	30.46	28.99	28.17	28.91
EOM	27.22	32.99	30.84	30.41	28.89	28.06	25.54	27.91	31.31	29.52	28.26	30.05
MAX	31.32	33.49	33.43	32.16	29.96	30.30	28.95	27.91	31.31	31.84	31.55	30.89

CAL YR 1988 MAX 33.53
WTR YR 1989 MAX 33.49

WELL NUMBER.--280739082294202. Van Dyke Shallow Well near Lutz, FL.

LOCATION.--Lat 28°07'39", long 82°29'42", in NE¼SW¼ sec.22, T.27 S., R.18 E., Hydrologic Unit 03100206, 0.3 mi east of intersection State Highway 597 and Little Road, and 2.6 mi southwest of Lutz. Owner: U. S. Geological Survey.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 22 ft, cased to 18 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 59.59 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.86 ft above land-surface datum. Prior to Oct. 1, 1988, top of flange, 3.80 ft above land-surface datum.

PERIOD OF RECORD.--December 1964 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 60.71 ft NGVD, Sept. 24, 1979; lowest, 48.30 ft NGVD, July 20, 1973.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	55.90	54.72	56.63	55.76	56.14	55.84	54.90	53.92	52.52	54.51	53.66	55.17
10	55.67	54.60	56.39	55.63	55.95	55.60	54.73	53.73	52.35	54.13	53.55	55.20
15	55.41	54.46	56.55	55.48	55.75	55.37	54.55	53.49	e52.20	53.79	53.65	54.90
20	55.18	54.31	56.25	55.36	55.61	55.23	54.46	53.25	52.52	53.55	53.36	54.94
25	54.98	57.27	56.09	56.70	55.51	55.19	54.28	53.03	53.98	54.20	54.65	55.54
EOM	54.73	56.95	55.90	56.35	55.42	55.01	54.08	52.74	54.37	54.03	54.97	55.93
MAX	56.08	57.28	56.89	56.75	56.31	55.84	55.01	54.04	54.37	54.51	54.97	55.93

CAL YR 1988 MAX 57.63
WTR YR 1989 MAX 57.28

e Estimated

HILLSBOROUGH COUNTY

WELL NUMBER.--280740082271001. Debuel Road Deep Well near Lutz, FL.

LOCATION.--Lat 28°07'40", long 82°27'10", in SE¼SE¼ sec.13, T.27 S., R.18 E., Hydrologic Unit 03100205, 0.7 mi east of intersection U. S. Highway 41 and Debuel Road, and 1.8 mi south of Lutz. Owner: U. S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 300 ft, cased to 118 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 63.68 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.10 ft above land-surface datum.

PERIOD OF RECORD.--August 1965 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 60.13 ft NGVD, Sept. 27, 1979; lowest, 50.03 ft NGVD, June 5, 1985.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	56.10	55.39	57.01	56.16	56.43	56.07	55.06	53.79	52.12	55.57	55.10	55.62
10	55.80	55.32	56.76	55.97	56.25	55.81	54.50	53.18	52.07	54.89	55.08	55.78
15	55.69	55.05	57.02	55.85	55.86	55.43	54.78	52.96	52.01	55.02	55.02	55.14
20	55.40	54.83	56.68	55.98	55.69	55.23	54.32	52.58	53.42	54.77	54.71	55.34
25	55.23	57.48	56.48	57.14	55.76	55.37	53.92	52.43	54.78	55.55	55.60	56.07
EOM	54.94	57.33	56.29	56.77	55.64	55.16	53.82	52.33	55.41	55.57	55.56	55.93
MAX	56.36	57.49	57.29	57.19	56.72	56.15	55.17	54.18	55.41	55.68	55.88	56.20

CAL YR 1988 MAX 57.95
WTR YR 1989 MAX 57.49

WELL NUMBER.--280740082271002. Debuel Road Shallow Well near Lutz, FL.

LOCATION.--Lat 28°07'40", long 82°27'10", in SE¼SE¼ sec.13, T.27 S., R.18 E., Hydrologic Unit 03100205, 0.7 mi east of intersection U. S. Highway 41 and Debuel Road, and 1.8 mi south of Lutz. Owner: U.S. Geological Survey.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 25 ft, cased to 22 ft.

INSTRUMENTATION.--Monthly measurement with steel tape.

DATUM.--Land-surface datum is 63.61 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of flange, 3.06 ft above land-surface datum. Prior to Oct. 8, 1987, top of casing extension, 3.00 ft above land-surface datum.

PERIOD OF RECORD.--August 1965 to April 1968 (intermittent); May 1968 to September 1969, incomplete; October 1969 to September 1986 (bimonthly), incomplete; October 1986 to September 1989 (monthly), discontinued. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 63.21 ft NGVD, Sept. 17, 1979; lowest measured, 53.31 ft NGVD, June 30, 1975.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
05...	1010	59.21	02...	1509	57.10
NOV			JUN		
08...	1010	57.93	07...	1310	55.79
DEC			JUL		
12...	0845	59.88	05...	1530	58.75
JAN			AUG		
10...	0710	58.93	08...	0720	58.50
MAR			SEP		
03...	1520	58.62	07...	1228	58.72
APR					
04...	1425	57.93			

HILLSBOROUGH COUNTY

WELL NUMBER.--280752082182701. Morris Bridge Deep Well 14 near Branchton, FL.

LOCATION.--Lat 28°07'52", long 82°18'27", in NW¼SE¼ sec.16, T.27 S., R.20 E., Hydrologic Unit 03100205, at Thomason Sod Farm, 1.1 mi west of State Highway 579, and 1.3 mi southwest of Branchton. Owner: City of Tampa.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 8 in., depth 1,783 ft, cased to 82 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 53.00 ft above National Geodetic Vertical Datum of 1929. Prior to Dec. 3, 1985, land-surface datum was considered to be 46.12 ft above NGVD. Measuring point: Top of casing, at land-surface datum. Prior to Oct. 26, 1984, top of recorder shelter floor, 3.85 ft above land-surface datum. Prior to April 1978, top of casing, 0.35 ft above land-surface datum; April to Oct. 25, 1978, top of recorder shelter floor, 0.44 ft above land-surface datum; Oct. 25, 1978, to Dec. 3, 1985, top of casing, 12.71 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells. Land surface was changed due to construction.

PERIOD OF RECORD.--May 1972 to March 1975 (quarterly), incomplete; May 1975 to September 1977 (semiannually); April 1978 to September 1984; October 1984 to September 1988 (monthly), incomplete; October 1988 to September 1989 (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 44.19 ft NGVD, Sept. 19, 1974; lowest measured, 29.51 ft NGVD, May 29, 1985.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
09...	1141	40.95	16...	1050	34.11
DEC			JUN		
21...	1149	41.81	13...	1546	32.82
FEB			AUG		
06...	1135	40.67	30...	1324	39.11
APR					
04...	1129	38.86			

WELL NUMBER.--280852082135601. Hillsborough State Park Parking Area Deep Well near Zephyrhills, FL.

LOCATION.--Lat 28°08'52", long 82°13'56", in NE¼SW¼ sec.8, T.27 S., R.21 E., Hydrologic Unit 03100205, 25 ft north of main parking lot in Hillsborough State Park, 0.5 mi northwest of U. S. Highway 301, and 6.5 mi southwest of Zephyrhills. Owner: U.S. Geological Survey.

AQUIFER.--Tampa limestone of Miocene Age, Geologic Unit 122 TAMP.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 50 ft, cased to 37 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 46.13 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 2.80 ft above land-surface datum.

PERIOD OF RECORD.--May 1972 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 46.56 ft NGVD, Sept. 30, 1979; lowest, 35.53 ft NGVD, June 13, 14, 1985.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	41.13	38.90	41.79	40.33	40.66	39.64	38.77	37.76	36.74	37.42	37.09	37.17
10	40.67	38.82	41.23	40.07	40.27	39.54	38.60	37.56	36.70	37.48	36.94	37.55
15	40.23	38.68	42.12	39.85	39.96	39.32	38.49	37.38	36.63	37.43	37.02	37.60
20	39.81	38.52	41.44	39.66	39.71	39.15	38.33	37.20	36.55	37.39	36.94	37.60
25	39.48	42.68	41.01	41.49	39.57	39.01	38.15	37.04	36.73	37.32	36.95	37.70
EOM	39.02	42.53	40.65	41.09	39.48	38.85	37.92	36.87	37.05	37.23	36.86	37.91
MAX	41.53	42.95	42.43	41.49	40.98	39.68	38.83	37.88	37.05	37.48	37.20	37.91

CAL YR 1988 MAX 46.33
WTR YR 1989 MAX 42.95

HILLSBOROUGH COUNTY

WELL NUMBER.--280901082310404. Dundee BM Well near Lutz, FL.

LOCATION.--Lat 28°09'01", long 82°31'04". in SW¼NW¼ sec.9, T.27 S., R.18 E., Hydrologic Unit 03100206, 1.0 mi south of Lutz-Lake Fern Road, and 3.4 mi west of Lutz. Owner: Southwest Florida Water Management District.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 8 in., depth 693 ft, cased to 65 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 59.07 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 2.32 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--January 1976 to October 1979; November 1979 to September 1982 (monthly); June 1986 to September 1989 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 50.11 ft NGVD, Sept. 28, 1979; lowest, 36.05 ft NGVD, May 27, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	44.00	43.21	45.49	44.25	44.71	44.55	42.12	40.74	36.80	43.22	41.45	43.05
10	44.34	43.70	44.82	44.10	44.20	44.47	41.77	37.75	38.37	42.96	40.94	42.98
15	44.01	42.75	46.17	44.41	43.94	43.34	42.34	37.69	38.05	41.66	41.32	41.96
20	43.25	42.75	45.68	44.71	43.20	42.64	41.92	36.64	40.65	40.53	41.13	42.52
25	42.67	45.45	44.55	45.72	44.18	43.27	40.53	36.78	42.82	43.41	42.40	44.54
EOM	41.74	46.15	44.18	45.30	43.76	43.01	39.18	38.42	43.91	41.79	43.70	44.42
MAX	44.66	46.15	46.36	45.74	45.37	44.82	43.04	40.97	43.91	44.03	43.70	44.78

CAL YR 1988 MAX 47.20
WTR YR 1989 MAX 46.36

WELL NUMBER.--280920082322101. Lutz-Lake Fern Deep Well near Lutz, FL.

LOCATION.--Lat 28°09'20", long 82°32'21", in NW¼NE¼ sec.7, T.27 S., R.18 E., Hydrologic Unit 03100206, 2.6 mi east of intersection State Highway 587 and Lutz-Lake Fern Road, and 4.6 mi west of Lutz. Owner: U. S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 375 ft, cased to 65 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 59.32 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.00 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--January 1963 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 48.43 ft NGVD, Feb. 19, 1963; lowest, 33.71 ft NGVD, June 7, 1985.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	41.23	41.02	43.20	41.66	41.99	41.72	39.59	38.20	35.06	41.14	39.73	40.56
10	41.56	41.79	42.51	41.29	41.34	41.65	39.33	36.09	36.59	40.61	38.62	40.55
15	41.69	40.35	43.18	41.92	41.11	40.79	39.75	35.93	36.89	39.40	39.58	39.60
20	40.83	40.19	43.00	41.53	40.30	40.42	39.50	35.17	37.91	38.25	38.86	40.26
25	40.25	42.35	42.25	42.80	41.43	40.37	38.41	35.11	40.34	40.97	40.22	42.02
EOM	39.63	43.60	41.91	42.45	41.30	40.54	37.23	35.93	41.62	39.29	41.33	41.88
MAX	42.53	43.60	43.71	42.91	42.51	41.76	40.52	38.29	41.62	41.73	41.33	42.37

CAL YR 1988 MAX 44.70
WTR YR 1989 MAX 43.71

HILLSBOROUGH COUNTY

WELL NUMBER.--280944082380501. Eldridge-Wilde Deep Well N-4 near Tarpon Springs, FL.

LOCATION.--Lat 28°09'44", long 82°38'05", in NE¼SE¼ sec.8, T.27 S., R.17 E., Hydrologic Unit 03100207, 3.8 mi northeast of intersection State Highway 582 and East Lake Road, and 6.4 mi east of Tarpon Springs. Owner: Unknown.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 350 ft, cased to 100 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 41.00 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 1.64 ft above land-surface datum. Prior to Nov. 5, 1987, top of recorder shelter floor, 2.04 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--July 1977 to current year. Records of water levels prior to October 1977 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 31.70 ft NGVD, Oct. 8, 1982; lowest, 17.24 ft NGVD, June 18, 1988.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	24.78	24.12	27.45	21.63	24.36	24.36	20.10	20.60	19.78	21.99	21.05	19.50
10	23.35	21.07	27.43	21.17	e23.60	22.81	22.31	19.87	20.86	20.50	20.75	19.61
15	24.40	20.49	28.53	20.70	e22.90	19.58	23.20	18.24	19.11	20.53	21.14	21.02
20	23.91	20.87	23.98	20.42	e22.20	19.59	22.59	19.13	20.28	19.85	20.04	20.84
25	22.67	27.25	24.80	26.02	e22.40	19.33	20.81	18.90	20.39	23.07	19.65	22.21
EOM	20.67	28.46	21.40	24.10	e21.60	22.99	20.26	20.05	21.84	21.64	18.10	20.90
MAX	24.90	28.46	28.61	26.02	24.58	25.00	23.28	20.79	21.87	23.07	21.58	22.60

CAL YR 1988 MAX 28.61
WTR YR 1989 MAX 28.61

e Estimated

STATION NUMBER	STATION NAME	LAT-I-TUDE	LONG-I-TUDE	DATE	ELEV-ATION ABOVE NGVD (FEET)
	HILLSBOROUGH COUNTY				
273843082321501	4B 38-32-13 PEEK	27 38 43 N	082 32 15 W	05-16-89	-8.86
				09-11-89	16.41
273858082071701	USGS WINDMILL SH WELL NR FT LONESOME, FL	27 38 58 N	082 07 17 W	05-18-89	125.97
				09-11-89	127.03
273903082085601	WELL 739 208 0356	27 39 03 N	082 08 56 W	05-18-89	3.38
				09-11-89	31.35
273904082053801	WR GRACE GS-6 NR DUETTE , FL	27 39 04 N	082 05 38 W	05-17-89	12.07
274032082064701	WELL NR DUETTE NE	27 40 32 N	082 06 47 W	09-11-89	121.41
274044082071601	TAYLOR GILL RD & TAYLOR RD NR DUETTE NE	27 40 44 N	082 07 16 W	05-16-89	98.71
				09-11-89	99.48
274044082205101	SRD WELL ON US 301 NR WIMAUMA	27 40 44 N	082 20 51 W	05-16-89	-2.41
				09-11-89	19.69
274056082060101	SHALLOW WELL NR DUETTE NE	27 40 56 N	082 06 01 W	05-16-89	127.98
				09-11-89	128.87
274057082064301	TAYLOR ROAD SHALLOW WELL NR DUETTE NE	27 40 57 N	082 06 43 W	05-16-89	118.45
				09-11-89	118.50
274103082053801	SPIVEY GROVE	27 41 03 N	082 05 38 W	09-13-89	33.52
274134082205001	BUZZBEE NR WIMAUMA	27 41 34 N	082 20 50 W	05-15-89	-16.75
				09-11-89	16.88
274145082114901	STANALAND	27 41 45 N	082 11 49 W	05-18-89	-12.30
274214082064701	SR 674 0.5 MI E OF TAYLOR GILL RD. NR DUETTE NE	27 42 14 N	082 06 47 W	09-11-89	101.72
274214082084401	FT LONESOME WELL 88 AT FT LONESOME, FL	27 42 14 N	082 08 44 W	05-16-89	107.25
				09-13-89	108.81
274218082035701	BARBER WELL 422 NR FT LONESOME. FL	27 42 18 N	082 03 57 W	05-16-89	118.33
				09-11-89	118.19
274247082231001	914 USGS NR RUSKIN	27 42 47 N	082 23 10 W	05-15-89	35.28
				09-11-89	39.93
274249082164001	SR 674 WELL AT BOYETTE RD NR WIMAUMA	27 42 49 N	082 16 40 W	05-16-89	-19.80
				09-12-89	18.02
274256082201601	SW HILLS CO 68(SUN CITY CENTER W.7) NR WIMAUMA	27 42 56 N	082 20 16 W	05-15-89	-18.83
				09-11-89	14.31
274303082280901	SW HILLS CO WELL 71 NR RUSKIN	27 43 03 N	082 28 09 W	05-16-89	0.12
				09-11-89	14.44
274312082144201	LANE(SW HILLS CO WELL 72A) NR FT.LONESOME	27 43 12 N	082 21 44 W	05-18-89	-24.62
				09-11-89	15.03
274315082201701	SUN CITY #6(SW HILLS CO WELL 72C NR WIMAUMA	27 43 15 N	082 20 17 W	05-15-89	-25.65
274318082202801	SUN CITY 1 NR WAIMAUMA	27 43 18 N	082 20 28 W	09-11-89	13.19
274318082202904	SUN CITY HAWTHORN WELL NR SUN CITY, FL	27 43 18 N	082 20 29 W	05-15-89	37.31
				09-11-89	45.51
274322082202601	SUN CITY #5(SW HILLS CO 79) NR WIMAUMA	27 43 22 N	082 20 26 W	05-15-89	-19.07
274403082200901	87A SUN CITY 8	27 44 03 N	082 20 09 W	05-15-89	-19.10
				09-11-89	13.40
274403082200902	8SH (87A) NR SUN CITY CENTER, FL	27 44 03 N	082 20 09 W	05-15-89	62.33
274410082230701	SW HILLS CO WELL 96 NR RUSKIN	27 44 10 N	082 23 07 W	09-11-89	11.80
274427082083704	ROMP 48 SHALLOW NR FORT LONESOME	27 44 27 N	082 08 37 W	05-16-89	91.05
				09-11-89	90.29
274440082144201	RUTH WELL 411 NR BALM, FL	27 44 40 N	082 14 42 W	09-12-89	14.77
274443082200901	102B SUN CITY 9	27 44 43 N	082 20 09 W	05-15-89	-18.86
				09-11-89	13.09
274443082200902	9SH (102B) NR SUN CITY CENTER,FL	27 44 43 N	082 20 09 W	05-15-89	52.47
274454082165201	102A STEVENS	27 44 54 N	082 16 52 W	05-16-89	-24.01

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1988 TO SEPTEMBER 1989

STATION NUMBER	STATION NAME	LAT-I-TUDE	LONG-I-TUDE	DATE	ELEV-ATION ABOVE NGVD (FEET)
	HILLSBOROUGH COUNTY				
274508082243401	USGS 912 NR GIBSONTON	27 45 08 N	082 24 34 W	05-16-89 09-11-89	5.85 7.81
274524082095401	WELL 745 209 2454	27 45 24 N	082 09 54 W	05-16-89 09-12-89	-2.26 25.07
274543082234001	SW HILLS CO WELL 118 NR RUSKIN (745223141 121)	27 45 43 N	082 23 40 W	09-12-89	13.50
274546082151402	ROMP 49 SH WELL NR BALM, FL	27 45 46 N	082 15 14 W	05-16-89	137.93
274605082170701	127A S W HILLSBORO	27 46 05 N	082 17 07 W	05-16-89 09-12-89	-23.53 21.58
274637082084501	BREWSTER SH WELL J11 SEC 19 AT PICNIC, FL	27 46 37 N	082 08 45 W	05-16-89 09-11-89	99.72 100.23
274748082130201	SIMMONS FISH FARM	27 47 48 N	082 13 02 W	05-16-89	-16.07
274813082223601	SW HILLS CO 182 NR ADAMSVILLE	27 48 13 N	082 22 36 W	05-16-89 09-11-89	-4.77 10.43
274857082194702	4S SW HILLSBORO NR ADAMSVILLE	27 48 57 N	082 19 47 W	05-15-89	56.58
274857082195301	RIVERVIEW NO. 3 NR ADAMSVILLE	27 48 57 N	082 19 53 W	05-15-89 09-11-89	-6.00 14.19
274857082195302	35 RIVERVIEW WELL FLD NR ADAMSVILLE	7 48 57 N	082 19 53 W	05-15-89	54.53
274857082195401	RIVERVIEW WELL FIELD WELL 419 NR RIVERVIEW, FL	27 48 57 N	082 19 54 W	05-15-89 09-11-89	-5.36 15.61
274901082194104	RIVERVIEW S. WELL 5 IN RIVERVIEW WELL FIELD, FL	27 49 01 N	082 19 41 W	05-15-89	56.01
274903082195301	749 219 333 RIVERVIEW #2	27 49 03 N	082 19 53 W	09-11-89	12.95
274904082135601	BOYETTE RD SH MON WELL NR BOYETTE,FL	27 49 04 N	082 13 56 W	05-16-89 09-12-89	79.48 82.11
274907082195302	1S RIVERVIEW WEL FLD	27 49 07 N	082 19 53 W	05-15-89	53.40
274909082194701	749 219 332A RIVERVIEW #7	27 49 09 N	082 19 47 W	05-15-89	-7.93
274909082194702	USGS 75 RIVERVIEW	27 49 09 N	082 19 47 W	05-15-89	53.00
274914082194701	749 219 332 RIVERVIEW #8 NR ADAMSVILLE	27 49 14 N	082 19 47 W	05-15-89	-7.03
274917082195101	RHODINE RD SH WELL NR RIVERVIEW, FL	27 49 17 N	082 19 51 W	05-15-89	53.78
274928082225501	SW HILLS CO 220 AT ADAMSVILLE	27 49 28 N	082 22 55 W	05-16-89 09-11-89	-1.51 7.00
274947082145401	749 214 113 CAMP DOROTHY THOMAS NR BOYETTE	27 49 47 N	082 14 54 W	05-16-89 09-12-89	-1.25 16.60
275032082121901	DORMAN RD SH WELL NR LITHIA,FL	27 50 32 N	082 12 19 W	05-16-89 09-11-89	70.12 72.55
275117082090001	-BLACK & TURNER	27 51 17 N	082 09 00 W	05-16-89 09-11-89	7.04 27.49
275135082315701	TAMPA SEWERS WELL AT TAMPA 7512313557 132	27 51 35 N	082 31 57 W	05-16-89 09-11-89	-1.41 0.54
275152082035801	EDISON JUNC. NR KEYSVILLE	27 51 52 N	082 03 58 W	05-16-89 06-08-89	30.19 27.70
275152082054701	OLD WELCOME JCT SH WELL NR KEYSVILLE, FL	27 51 52 N	082 05 47 W	05-16-89 09-12-89	90.98 89.79
275210082171001	MCMULLEN CAMPGROUND SO E RIVERVIEW FLA	27 52 10 N	082 17 10 W	05-16-89 09-12-89	5.20 12.00
275227082310101	ROBINSON HIGH SCHOOL STADIUM D. WELL AT TPA,FL	27 52 27 N	082 31 01 W	05-16-89 09-11-89	-0.38 1.20
275316082285901	TAMPA YACHT AND RIDING STABLES AT BALLAST POINT	27 53 16 N	082 28 59 W	05-16-89 09-11-89	1.27 2.24
275318082312201	PAXTON PUMP STATION WELL AT TAMPA	27 53 18 N	082 31 22 W	05-16-89 09-11-89	2.55 4.78

STATION NUMBER	STATION NAME	LAT-I-TUDE	LONG-I-TUDE	DATE	ELEV-ATION ABOVE NGVD (FEET)
	HILLSBOROUGH COUNTY				
275322082034101	WELL 753 203 2241	27 53 22 N	082 03 41 W	05-16-89	31.81
				09-12-89	45.37
275322082160801	BRANDON 24 NR BLOOMINGDALE	27 53 22 N	082 16 08 W	05-15-89	7.90
				09-11-89	13.47
275322082160802	BELL SHOALS SH NR BRANDON	27 53 22 N	082 16 08 W	05-15-89	42.80
275323082302201	BALLAST POINT PUMP STATION WELL AT TAMPA	27 53 23 N	082 30 22 W	05-16-89	8.51
				09-11-89	10.17
275337082171701	FIRE STATION BRNDN	27 53 37 N	082 17 17 W	05-15-89	15.13
				09-11-89	13.62
275337082171702	FIRE STATION SH NR BRANDON	27 53 37 N	082 17 17 W	05-15-89	20.73
				09-11-89	28.45
275353082175601	KINGSWOOD-HILLS CTY WELL	27 53 53 N	082 17 56 W	05-15-89	10.07
				09-11-89	13.06
275353082175602	KINGSWOOD PARK SH WELL NR BRANDON, FL	27 53 53 N	082 17 56 W	09-11-89	29.56
275357082191301	PROVIDENCE BAPT CH NR BRNDN	27 53 57 N	082 19 13 W	05-18-89	10.19
				09-11-89	15.67
275413082114301	LEWIS IRR WELL DURANT RD NR BRANDON	27 54 13 N	082 11 43 W	05-15-89	12.00
				09-12-89	19.38
275413082170801	BRANDON 8	27 54 13 N	082 17 08 W	05-15-89	36.31
275418082073801	ALAFIA SH WELL NR KEYSVILLE, FL	27 54 18 N	082 07 38 W	05-15-89	95.87
				09-12-89	95.80
275420082204501	US301 AND I75 D NR BRANDON	27 54 20 N	082 20 45 W	05-15-89	14.78
				09-11-89	18.54
275426082154702	HI POINT SH NR BRANDON	27 54 26 N	082 15 47 W	05-15-89	110.13
				09-11-89	110.10
275429082111501	DURANT RD SH MON WELL NR DURANT,FL	27 54 29 N	082 11 15 W	05-15-89	30.45
275438082162301	OAKMONT DP NR BRANDON	27 54 38 N	082 16 23 W	05-15-89	10.92
275452082294101	ACADEMY OF THE HOLY NAMES AT TAMPA,FL	27 54 52 N	082 29 41 W	05-16-89	2.30
				09-11-89	4.95
275458082310301	M.MURPHY,4317 SAN LUIS AT TAMPA,FL	27 54 58 N	082 31 03 W	05-16-89	3.32
				09-11-89	5.66
275504082171001	USGS 901 NR BRANDON	27 55 04 N	082 17 10 W	05-15-89	24.81
				09-11-89	27.20
275508082164401	BRANDON 5 COLONIAL	27 55 08 N	082 16 44 W	05-18-89	10.35
275524082303101	M.BALIF,3909 PALMIRA AT TAMPA,FL	27 55 24 N	082 30 31 W	05-16-89	10.48
				09-11-89	13.50
275526082301301	PLANT HIGH SCHOOL STADIUM D.WELL AT TAMPA,FL	27 55 26 N	082 30 13 W	05-16-89	8.24
				09-11-89	11.53
275529082143301	BRANDON RIDGELAND	27 55 29 N	082 14 33 W	05-18-89	10.54
275536082171102	J.MOORE SH WELL NR BRANDON, FL	27 55 36 N	082 17 11 W	05-15-89	28.42
				09-12-89	30.53
275537082041301	SAM HICKS SH MON WELL NR NICHOLS,FL	27 55 37 N	082 04 13 W	05-15-89	80.91
275601082300201	MORRISON PUMP STA. WELL AT TAMPA,FLA	27 56 01 N	082 30 02 W	05-16-89	15.17
				09-11-89	17.60
275603082175001	OAKFIELD DR DP NR BRNDN	27 56 03 N	082 17 50 W	05-15-89	11.89
275608082074201	WELL 756 207 0842	27 56 08 N	082 07 42 W	05-15-89	37.70
275609082191401	HILLSBORO MEM CEM DP NR BRNDN	27 56 09 N	082 19 14 W	05-18-89	10.88
				09-12-89	14.09
275614082310001	SWAN PUMP STATION WELL AT TAMPA,FLA	27 56 14 N	082 31 00 W	09-11-89	3.04
275630082275201	NCNB NAT'L BANK,249 SO HYDE PARK AT TAMPA,FL	27 56 30 N	082 27 52 W	05-16-89	6.31
				09-11-89	8.58

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STATION NUMBER	STATION NAME	LAT-I-TUDE	LONG-I-TUDE	DATE	ELEV-ATION ABOVE NGVD (FEET)
	HILLSBOROUGH COUNTY				
275631082293801	A.MESSINA,305 SO.MACDILL AVE. AT TAMPA,FL	27 56 31 N	082 29 38 W	05-16-89	9.25
				09-11-89	11.88
275634082282201	W.POPE,108 SO WILLOW AT TAMPA,FL	27 56 34 N	082 28 22 W	05-16-89	6.65
275634082305701	CLEVELAND AND HUBERT D WELL AT TAMPA,FL	27 56 34 N	082 30 57 W	05-16-89	1.70
				09-11-89	3.84
275638082163101	BRANDON RAINBOW 1	27 56 38 N	082 16 31 W	05-18-89	10.70
275638082185800	LAKE GORNTO NR BRANDON, FL	27 56 38 N	082 18 58 W	05-15-89	34.78
275639082163401	BRANDON 2 RAINBOW 2	27 56 39 N	082 16 34 W	05-18-89	10.79
				09-12-89	13.94
275639082163402	RAINBOW 2 SH AT BRANDON	27 56 39 N	082 16 34 W	05-18-89	33.70
				09-12-89	54.63
275647082292101	WEST TAMPA EJECTOR WELL AT TAMPA	27 56 47 N	082 29 21 W	05-16-89	14.41
				09-11-89	18.12
275653082231101	USCE WELL TBC-15	27 56 53 N	082 23 11 W	05-16-89	6.06
275707082322201	BAY WEST COMM. PARK AT TAMPA,FL	27 57 07 N	082 32 22 W	05-16-89	-2.68
				09-11-89	-0.45
275733082304301	TAMPA SEWERS S. WELL 651 AT TAMPA,FL	27 57 33 N	082 30 43 W	05-16-89	15.83
				09-11-89	18.48
275736082162001	KINGSWAY HILSBORO CO	27 57 36 N	082 16 20 W	05-18-89	13.75
275744082071601	PUBLIX SPRMRKT NR PLNT CITY	27 57 44 N	082 07 16 W	09-12-89	37.62
275747082184001	BRANDON 17	27 57 47 N	082 18 40 W	05-15-89	13.12
				09-12-89	15.87
275753082152301	HULMBERG DP WELL NR BRANDON FL	27 57 53 N	082 15 23 W	05-15-89	17.68
275759082171201	BRANDON 13	27 57 59 N	082 17 12 W	05-15-89	11.84
275801082071801	TRAPNELL RD SH MON WELL NR PLANT CITY,FL	27 58 01 N	082 07 18 W	05-15-89	111.43
				09-12-89	112.02
275808082073001	COONE D. WELL SR 39 NR PLANT CITY	27 58 08 N	082 07 30 W	05-15-89	54.58
275811082161601	OAK FOREST DP AT BRANDON	27 58 11 N	082 16 16 W	05-15-89	14.54
				09-12-89	17.78
275811082282901	BEAGLES,1012 CORAL AT TAMPA,FL	27 58 11 N	082 28 29 W	05-16-89	10.69
				09-11-89	14.06
275838082165501	BRANDON 22	27 58 38 N	082 16 55 W	05-15-89	17.87
275843082222201	W.D.FUSSELL 618	27 58 43 N	082 22 22 W	05-18-89	14.78
275853082181801	HOLT DP NR MANGO	27 58 53 N	082 18 18 W	05-15-89	16.64
275853082185901	BUFFALO AVE SH NR MANGO,FL	27 58 53 N	082 18 59 W	05-15-89	29.33
275858082144001	MCINTOSH RD SH MONITOR WELL NR DOVER,FL	27 58 58 N	082 14 40 W	05-15-89	54.14
275905082292901	THE WOODLANDS APTS,4714 NO HABANA AT TAMPA,FL	27 59 05 N	082 29 29 W	05-16-89	13.74
				09-11-89	16.74
275907082170701	BRANDON GROVES NORTH	27 59 07 N	082 17 07 W	05-15-89	17.29
275908082182601	BRANDON PRESIDENTIAL MANOR	27 59 08 N	082 18 26 W	09-12-89	32.11
275928082312801	TIA AIRCRAFT MAINTENANCE AT TAMPA,FL	27 59 28 N	082 31 28 W	05-16-89	15.60
				09-11-89	18.43
275942082153101	VETS NURSERY NR DOV	27 59 42 N	082 15 31 W	05-15-89	23.92
275954082183101	BRANDON 20	27 59 54 N	082 18 31 W	05-15-89	16.35
280002082330801	CP-120 NR CITRUS PARK,FL	28 00 02 N	082 33 08 W	05-16-89	11.42
				09-14-89	13.72
280005082181001	BRANDON 21	28 00 05 N	082 18 10 W	05-15-89	16.98
280012082164801	BRANDON 26	28 00 12 N	082 16 48 W	05-15-89	16.68

STATION NUMBER	STATION NAME	LAT-I-TUDE	LONG-I-TUDE	DATE	ELEV-ATION ABOVE NGVD (FEET)
	HILLSBOROUGH COUNTY				
280012082174601	DF-6 NR SEFFNER,FL	28 00 12 N	082 17 46 W	05-18-89	13.90
280012082204901	USCE WELL TBC-05	28 00 12 N	082 20 49 W	05-18-89	15.68
				09-13-89	17.77
280013082351301	CITRUS PARK CP-102 SH NR CITRUS PARK, FL	28 00 13 N	082 35 13 W	05-16-89	1.09
				09-14-89	2.56
280021082163301	BRANDON 25	28 00 21 N	082 16 33 W	05-15-89	6.55
280034082362401	CHANNEL A D. WELL 38 NR TAMPA, FL	28 00 34 N	082 36 24 W	05-18-89	2.55
				09-14-89	3.95
280103082110701	C.P.MCKEEN MON.WELL NR CITRUS PARK,FL	28 01 03 N	082 11 07 W	05-15-89	98.23
				09-12-89	96.51
280114082365001	CP-100 NR CITRUS PARK,FL	28 01 14 N	082 36 50 W	05-16-89	4.20
				09-14-89	7.05
280123082171301	F-12 NR SEFFNER,FL	28 01 23 N	082 17 13 W	05-18-89	15.82
280123082171302	S-12 NEAR SEFFNER, FL	28 01 23 N	082 17 23 W	05-18-89	49.98
280129082314701	CITY OF TPA D. WELL NR BENJAMIN RD & WATERS AV	28 01 29 N	082 31 47 W	05-15-89	14.38
				09-12-89	18.31
280130082300401	USGS SH WELL @ WATERS AND HIMES	28 01 30 N	082 30 04 W	05-16-89	38.23
				09-14-89	41.52
280132082345901	SH WELL AT WATERS AND SHELDON RD AT TAMPA, FL	28 01 32 N	082 34 59 W	05-16-89	9.06
				09-14-89	13.76
280142082210901	TBC DP WELL 603	28 01 42 N	082 21 09 W	05-18-89	16.96
280222082350001	CP-104 NR CITRUS PARK,FL	28 02 22 N	082 35 00 W	05-18-89	14.57
				09-14-89	15.22
280245082320201	CP-124 NR CITRUS PARK,FL	28 02 45 N	082 32 02 W	05-16-89	32.97
				09-14-89	36.76
280253082164001	WELL 802216534001	28 02 53 N	082 16 40 W	05-17-89	23.92
				09-12-89	25.44
280253082164002	WELL 802216534002	28 02 53 N	082 16 40 W	05-17-89	35.20
				09-12-89	34.92
280305082185101	J. W. MORRIS WELL NR TEMPLE TERRACE,FLA	28 03 05 N	082 18 51 W	05-17-89	23.40
280314082345902	ST PETE S. WELL E-104 NR CITRUS PK	28 03 14 N	082 34 59 W	05-15-89	15.24
				09-13-89	21.08
280341082324001	CP-108 NR CITRUS PARK,FL	28 03 41 N	082 32 40 W	05-16-89	30.01
				09-14-89	32.27
280350082104401	FISHER	28 03 50 N	082 10 44 W	09-12-89	84.43
280354082335501	WELL 803 233 5455	28 03 54 N	082 33 55 W	05-16-89	18.63
280409082160401	KELSO RD S. WELL 519 NR THONOTOSASSA,FL	28 04 09 N	082 16 04 W	09-12-89	35.54
280413082061401	MA QUAGLIANI	28 04 13 N	082 06 14 W	05-15-89	86.61
280420082285501	USGS D. WELL 402 NR LUTZ	28 04 20 N	082 28 55 W	05-15-89	33.38
				09-11-89	38.93
280438082075301	MARTIN M GRIFFIN RD	28 04 38 N	082 07 53 W	05-15-89	89.24
				09-12-89	91.53
280447082043401	HWY 582 EAST SH MON WELL NR KNIGHTS,FL	28 04 47 N	082 04 34 W	05-15-89	104.10
				09-12-89	105.98
280448082193801	U.S.G.S. SH WELL 515 NR TEMPLE TERRACE	28 04 48 N	082 19 38 W	09-13-89	26.97
280504082292301	408D	28 05 04 N	082 29 23 W	05-15-89	32.98
				09-11-89	39.95
280504082365502	WELL 805 236 0455	28 05 04 N	082 36 55 W	05-15-89	24.71
				09-11-89	27.68
280530082311501	USGS S. WELL 464 NR LUTZ	28 05 30 N	082 31 15 W	09-11-89	47.94

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STATION NUMBER	STATION NAME	LAT-I-TUDE	LONG-I-TUDE	DATE	ELEV-ATION ABOVE NGVD (FEET)
	HILLSBOROUGH COUNTY				
280548082354801	COSME D WELL 1B NR CITRUS PARK	28 05 48 N	082 35 48 W	05-15-89 09-11-89	15.17 23.66
280550082202902	MORRIS BRIDGE SH WELL 10 NR BRANCHTON	28 05 50 N	082 20 29 W	05-15-89	22.01
280550082355001	COSME D WELL 1C NR CITRUS PARK	28 05 50 N	082 35 50 W	09-11-89	21.60
280552082350201	COSME D WELL 17 NR CITRUS PARK	28 05 52 N	082 35 02 W	05-15-89 09-11-89	16.45 24.13
280553082354201	COSME D WELL 2 NR CITRUS PARK	28 05 53 N	082 35 42 W	09-11-89	23.84
280557082342601	WELL 8052345726	28 05 57 N	082 34 26 W	05-15-89 09-11-89	43.15 44.93
280603082350101	COSME D WELL 16 NR CITRUS PARK	28 06 03 N	082 35 01 W	05-15-89	14.66
280603082385402	ST PETE E-103 SHALLOW	28 06 03 N	082 38 54 W	05-15-89 09-11-89	17.28 19.63
280607082352801	COSME D WELL 3A NR CITRUS PARK	28 06 07 N	082 35 28 W	09-11-89	24.09
280607082353001	ST PETE COSME 3	28 06 07 N	082 35 30 W	05-15-89 09-11-89	16.17 24.03
280610082210701	MORRIS BRIDGE 161B	28 06 10 N	082 21 07 W	05-15-89	20.62
280610082350201	COSME D WELL 19 NR CITRUS PARK	28 06 10 N	082 35 02 W	05-15-89 09-11-89	13.45 22.82
280611082351501	COSME D WELL 4 NR CITRUS PARK	28 06 11 N	082 35 15 W	09-11-89	21.39
280612082200801	MORRIS BRIDGE DP WELL 8 NR BRANCHTON	28 06 12 N	082 20 08 W	05-15-89 09-11-89	20.03 28.63
280612082345101	WELL 806 234 1251	28 06 12 N	082 34 51 W	05-15-89 09-11-89	18.85 24.39
280615082195201	MORRIS BRIDGE 163B	28 06 15 N	082 19 52 W	09-11-89	28.12
280618082351301	COSME D WELL 5 NR CITRUS PARK	28 06 18 N	082 35 13 W	09-11-89	20.95
280621082254801	USGS S.WELL 510 NR TEMPLE TERRACE	28 06 21 N	082 25 48 W	05-17-89 09-13-89	40.81 43.40
280622082353501	COSME D WELL 21 NR CITURS PARK	28 06 22 N	082 35 35 W	09-11-89	21.63
280626082200801	MORRIS BRIDGE 162B	28 06 26 N	082 20 08 W	09-11-89	29.42
280626082200802	MORRIS BRIDGE S.WELL 162 NR BRANCHTON,FLA	28 06 26 N	082 20 08 W	05-15-89 09-11-89	26.90 30.76
280628082205901	MORRIS BRIDGE 160B	28 06 28 N	082 20 59 W	09-11-89	29.77
280628082205902	MORRIS BRIDGE S.WELL 160 NR BRANCHTON,FLA	28 06 28 N	082 20 59 W	09-11-89	31.15
280628082350401	COSME D WELL 6 NR CITRUS PARK	28 06 28 N	082 35 04 W	05-15-89 09-11-89	4.68 13.99
280628082350402	COSME WF S. WELL 6 NR CITRUS PK	28 06 28 N	082 35 04 W	05-15-89 09-11-89	35.67 35.30
280629082193101	MORRIS BRIDGE 164B	28 06 29 N	082 19 31 W	09-11-89	27.50
280629082193102	MORRIS BRIDGE S.WELL 164 NR BRANCHTON,FLA	28 06 29 N	082 19 31 W	05-15-89 09-11-89	24.83 28.28
280631082193801	MORRIS BRIDGE DP WELL 7 NR BRANCHTON	28 06 31 N	082 19 38 W	05-15-89 09-11-89	19.57 28.99
280631082203301	MORRIS BRIDGE DP WELL 5 NR BRANCHTON	28 06 31 N	082 20 33 W	05-15-89 09-11-89	20.13 30.55
280635082350101	COSME D WELL 9 NR CITRUS PARK	28 06 35 N	082 35 01 W	09-11-89	18.02
280641082345401	ST PETE COSME D. WELL 7A NR CITRUS PK, FL	28 06 41 N	082 34 54 W	09-11-89	15.85
280642082195801	MORRIS BR.DP. 3B	28 06 42 N	082 19 58 W	09-11-89	29.56
280643082192401	MORRIS BRIDGE 165B	28 06 43 N	082 19 24 W	09-11-89	28.73

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	HILLSBOROUGH COUNTY				
280643082192402	MORRIS BRIDGE S.WELL 165 NR BRANCHTON,FLA	28 06 43 N	082 19 24 W	05-15-89	24.69
				09-11-89	27.92
280643082353101	CRAWLEY S. WELL 321 NR CITRUS PK	28 06 43 N	082 35 31 W	05-15-89	39.39
				09-11-89	38.94
280647082181702	MORRIS BRIDGE S.WELL 167 NR BRANCHTON,FLA	28 06 47 N	082 18 17 W	05-15-89	26.26
				09-11-89	28.60
280647082354301	CRAWLEY RD S. WELL 317 NR CITRUS PK	28 06 47 N	082 35 43 W	05-15-89	39.72
				09-11-89	39.03
280648082301101	SEC 21 D WELL 10 NR LUTZ	28 06 48 N	082 30 11 W	05-16-89	30.31
280648082301102	SEC 21 S WELL 10A NR LUTZ	28 06 48 N	082 30 11 W	05-16-89	44.72
				09-11-89	46.72
280648082301602	USGS S. WELL 433 NR LUTZ	28 06 48 N	082 30 16 W	05-16-89	45.22
				09-11-89	46.15
280648082302601	USGS D. WELL 433 NR LUTZ	28 06 48 N	082 30 26 W	05-16-89	32.63
280649082344901	COSME D WELL 8 NR CITRUS PARK	28 06 49 N	082 34 49 W	09-11-89	24.86
280650082301401	USGS D. WELL 466 NR LUTZ	28 06 50 N	082 30 14 W	05-16-89	35.07
				09-11-89	38.42
280650082301402	USGS S. WELL 466 NR LUTZ	28 06 50 N	082 30 14 W	05-16-89	45.03
				09-11-89	46.47
280651082202501	MORRIS BRIDGE DP WELL 2A NR BRANCHTON	28 06 51 N	082 20 25 W	05-15-89	23.62
				09-11-89	34.29
280651082204301	MORRIS BR WF D. WELL 1 NR BRANCHTON,FL	28 06 51 N	082 20 43 W	05-15-89	30.50
280651082352002	MOBLEY RD S. WELL 318 NR CITRUS PK	28 06 51 N	082 35 20 W	05-15-89	37.85
				09-11-89	37.73
280652082185901	MORRIS BRIDGE 166B	28 06 52 N	082 18 59 W	05-15-89	19.69
				09-11-89	28.98
280652082185902	MORRIS BRIDGE S.WELL 166 NR BRANCHTON,FLA	28 06 52 N	082 18 59 W	09-11-89	28.69
280652082341601	COSME D WELL 10 NR CITRUS PARK	28 06 52 N	082 34 16 W	05-15-89	20.83
				09-11-89	25.91
280652082341602	JAMES S. WELL 10 NR CITRUS PARK, FLA	28 06 52 N	082 34 16 W	05-15-89	44.35
				09-11-89	45.80
280654082305802	SEC 21 S WELL 3A NR LUTZ	28 06 54 N	082 30 58 W	05-16-89	48.55
				09-11-89	50.90
280655082175801	MORRIS BRIDGE DP WELL 509 NR BRANCHTON	28 06 55 N	082 17 58 W	09-13-89	30.65
280655082175802	MORRIS BRIDGE SH WELL 509 NR BRANCHTON	28 06 55 N	082 17 58 W	05-16-89	23.26
280655082183501	MORRIS BRIDGE 168B	28 06 55 N	082 18 35 W	09-11-89	30.26
280655082183502	MORRIS BRIDGE S.WELL 168 NR BRANCHTON,FLA	28 06 55 N	082 18 35 W	05-15-89	30.15
				09-11-89	33.34
280656082305801	SEC21 D WELL 1 NR LUTZ	28 06 56 N	082 30 58 W	05-16-89	31.34
				09-11-89	33.60
280657082305801	SEC 21 D WELL 3 NR LUTZ	28 06 57 N	082 30 58 W	05-16-89	30.93
				09-11-89	33.27
280659082205101	MORRIS BRIDGE 159B	28 06 59 N	082 20 51 W	09-11-89	36.40
280659082205102	MORRIS BRIDGE S.WELL 159 NR BRANCHTON,FLA	28 06 59 N	082 20 51 W	05-15-89	30.49
				09-11-89	38.36
280659082294303	BERGER S. WELL 2 NR CITRUS PARK, FLA	28 06 59 N	082 29 43 W	05-16-89	47.67
				09-11-89	50.31
280702082302602	HILLSBOROUGH S. WELL 13 NR CITRUS PK, FLA	28 07 02 N	082 30 28 W	05-16-89	42.20
				09-11-89	31.27
280703082333701	WELL 807233033701	28 07 03 N	082 33 37 W	05-15-89	34.11
				09-11-89	47.32

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1988 TO SEPTEMBER 1989

STATION NUMBER	STATION NAME	LAT-I-TUDE	LONG-I-TUDE	DATE	ELEV-ATION ABOVE NGVD (FEET)
	HILLSBOROUGH COUNTY				
280703082333702	WELL 807233033702	28 07 03 N	082 22 27 W	05-15-89 09-11-89	44.79 34.68
280705082202301	MORRIS BRIDGE 153A	28 07 05 N	082 20 23 W	05-15-89 09-11-89	22.37 34.29
280708082305801	SEC 21 D WELL 2 NR LUTZ	28 07 08 N	082 30 58 W	05-16-89	30.54
280710082341401	COSME D WWELL 12 NR CITRUS PARK	28 07 10 N	082 34 14 W	05-15-89	21.19
280711082181901	MORRIS BRIDGE 169B	28 07 11 N	082 18 19 W	09-11-89	31.71
280711082181902	MORRIS BRIDGE S.WELL 169 NR BRANCHTON,FLA	28 07 11 N	082 18 19 W	05-15-89 09-11-89	31.26 33.80
280712082341501	COSME D WELL 12A NR CITRUS PARK	28 07 12 N	082 34 15 W	05-15-89 09-11-89	21.24 -27.52
280712082341502	COSME S WELL 12A NR CITRUS PARK	28 07 12 N	082 34 15 W	05-15-89 09-11-89	46.70 47.94
280715082295401	SEC 21 THOMPSON WELL NR LUTZ	28 07 15 N	082 29 54 W	05-16-89 09-11-89	33.85 43.13
280715082295402	WELL 807229155402	28 07 15 N	082 29 54 W	05-16-89 09-11-89	50.75 53.26
280717082200401	MORRIS BRIDGE 154A	28 07 17 N	082 20 04 W	09-11-89	35.91
280717082342101	ST PETE COSME D. WELL 23 NR CITRUS PK, FL	28 07 17 N	082 34 21 W	09-11-89	26.22
280718082210701	MORRIS BRIDGE 150A	28 07 18 N	082 21 07 W	09-11-89	36.53
280718082210702	MORRIS BRIDGE S.WELL 150 NR BRANCHTON,FLA	28 07 18 N	082 21 07 W	05-15-89 09-11-89	36.32 41.05
280721082192401	MORRIS BRIDGE 156A	28 07 21 N	082 19 24 W	09-11-89	35.44
280721082192402	MORRIS BRIDGE WF S. WELL 156 NR BRANCHTON,FL	28 07 21 N	082 19 24 W	05-15-89 09-11-89	33.37 33.99
280721082344902	WELL 807234214902	28 07 21 N	082 34 49 W	05-15-89 09-11-89	42.42 43.35
280727082184601	MORRIS BRIDGE 158A	28 07 27 N	082 18 46 W	05-15-89 09-11-89	27.26 36.22
280727082184602	MORRIS BRIDGE WF S. WELL 158 NR BRANCHTON,FL	28 07 27 N	082 18 46 W	05-15-89 09-11-89	34.81 36.11
280727082303802	SECTION 21 WF S. WELL 455 NR LUTZ	28 07 27 N	082 30 38 W	05-16-89 09-11-89	47.46 49.90
280728082202801	MORRIS BRIDGE 152A	28 07 28 N	082 20 28 W	05-15-89 09-11-89	25.70 36.94
280728082202802	MORRIS BRIDGE WF S. WELL 152 NR BRANCHTON,FL	28 07 28 N	082 20 28 W	05-15-89 09-11-89	36.41 40.47
280728082301101	ST PETE DP 21-7	28 07 28 N	082 30 11 W	05-16-89 09-11-89	34.43 39.12
280728082301102	ST PETE INTERMED DP WELL 21-7 NEAR LUTZ, FLA	28 07 28 N	082 30 11 W	05-16-89 09-11-89	31.62 36.68
280728082301103	ST PETE 21-7 S. WELL NR LUTZ	28 07 28 N	082 30 11 W	05-16-89 09-11-89	49.40 50.89
280732082194401	MORRIS BRIDGE 155A	28 07 32 N	082 19 44 W	05-15-89 09-11-89	26.84 37.06
280732082194402	MORRIS BRIDGE WF S. WELL 155 NR BRANCHTON,FL	28 07 32 N	082 19 44 N	05-15-89 09-11-89	34.49 37.29
280732082305801	ST PETE DP 26A	28 07 32 N	082 30 58 W	05-16-89 09-11-89	31.59 34.55
280732082305802	ST. PETE S. WELL 26A NR LUTZ, FLA	28 07 32 N	082 30 58 W	05-16-89 09-11-89	51.39 54.63

STATION NUMBER	STATION NAME	LAT-I-TUDE	LONG-I-TUDE	DATE	ELEV-ATION ABOVE NGVD (FEET)
	HILLSBOROUGH COUNTY				
280732082342801	COSME D WELL 25 NR CITRUS PARK	28 07 32 N	082 34 28 W	05-15-89	20.70
				09-11-89	26.87
280732082342802	COSME WF S. WELL 25 NR CITRUS PARK	28 07 32 N	082 34 28 W	05-15-89	46.57
				09-11-89	48.33
280733082210302	MORRIS BRIDGE S.WELL 151 NR BRANCHTON,FLA	28 07 33 N	082 21 03 W	05-15-89	41.33
				09-11-89	43.47
280734082313301	SEC 21 GOODWIN WELL NR LUTZ	28 07 34 N	082 31 33 W	05-15-89	31.51
				09-11-89	34.12
280736082190901	MORRIS BRIDGE 157A	28 07 36 N	082 19 09 W	09-11-89	37.75
280736082190902	MORRIS BRIDGE S.WELL 157 NR BRANCHTON,FLA	28 07 36 N	082 19 09 W	05-15-89	35.95
				09-11-89	39.09
280737082184101	MORRIS BRIDGE WF D. WELL 9 NR BRANCHTON	28 07 37 N	082 18 15 W	09-12-89	37.24
280738082282701	BRANT LAKE D. WELL 472 NR LUTZ	28 07 38 N	082 28 27 W	05-15-89	48.06
				09-11-89	51.75
280738082302001	SEC 21 D WELL 6 NR LUTZ	28 07 38 N	082 30 20 W	09-11-89	38.03
280738082302701	SECTION 21 WF S. WELL 21-5A NR LUTZ	28 07 38 N	082 30 27 W	05-16-89	50.43
				09-11-89	53.31
280738082303201	SEC 21 D WELL 5 NR LUTZ	28 07 38 N	082 30 32 W	05-16-89	34.01
				09-11-89	33.68
280738082303301	SEC 21 S WELL 5E NR LUTZ	28 07 38 N	082 30 33 W	05-16-89	50.16
				09-11-89	53.18
280738082304701	SEC 21 D WELL 4 NR LUTZ	28 07 38 N	082 30 47 W	05-16-89	31.73
				09-11-89	34.98
280740082301201	SECTION 21 WF D. WELL 468 NR LUTZ	28 07 40 N	082 30 12 W	05-16-89	34.41
				09-11-89	40.23
280740082301202	SECTION 21 WF S. WELL 468 NR LUTZ	28 07 40 N	082 30 12 W	05-16-89	52.74
				09-11-89	54.82
280744082342701	COSME WF D. WELL 313 NR CITRUS PARK	28 07 44 N	082 34 27 W	05-15-89	51 87
				09-11-89	53.28
280744082342702	COSME WF S. WELL 313 NR CITRUS PARK	28 07 44 N	082 34 27 W	05-15-89	51.24
				09-11-89	52.70
280812082345301	-MAGYORASY	28 08 12 N	082 34 53 W	05-15-89	23.96
				09-11-89	27.10
280813082343001	COSME D WELL 30 NR CITRUS PARK	28 08 13 N	082 34 30 W	09-11-89	27.88
280820082343102	WELL 808234203102	28 08 20 N	082 34 31 W	05-15-89	57.07
				09-11-89	59.11
280827082343301	COSME D WELL 32 NR CITRUS PARK	28 08 27 N	082 34 33 W	05-15-89	24.02
				09-11-89	29.60
280831082365101	TARPON RD D. WELL 340 NR CITRUS PK	28 08 31 N	082 36 51 W	05-15-89	20.36
				09-11-89	23.53
280831082365801	TARPON RD S. WELL 336 NR CITRUS PK	28 08 31 N	082 36 58 W	05-15-89	35.85
				09-11-89	38.98
280833082343601	ST PETE 33A	28 08 33 N	082 34 36 W	05-15-89	24.56
				09-11-89	29.30
280835082284101	BALLINGER RD SH MONITOR WELL NR LUTZ,FL	28 08 35 N	082 28 41 W	05-15-89	63.08
				09-11-89	63.94
280839082385001	ELD. WILDE SH 022	28 08 39 N	082 38 50 W	05-15-89	23.58
				09-11-89	19.23
280840082343802	ST. PETE S. WELL 34 NR CITRUS PARK, FLA	28 08 40 N	082 34 38 W	05-15-89	52.88
				09-11-89	54.82
280848082385101	ELDRIDGE-WILDE WELL 4S NR TARPON SPRINGS, FLA	28 08 48 N	082 38 51 W	05-15-89	1.70
				09-11-89	3.82

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1988 TO SEPTEMBER 1989

STATION NUMBER	STATION NAME	LAT-I-TUDE	LONG-I-TUDE	DATE	ELEV-ATION ABOVE NGVD (FEET)
	HILLSBOROUGH COUNTY				
280915082382801	ELD. WILDE SH 024	28 09 15 N	082 38 28 W	05-15-89	22.73
				09-11-89	27.02
280920082322102	LUTZ-LK FERN S. WELL NR LUTZ, FLA	28 09 20 N	082 32 21 W	05-15-89	55.54
				09-11-89	57.84
280926082162101	MORRIS BRIDGE DP WELL 532 NR BRANCHTON	28 09 26 N	082 16 21 W	05-16-89	43.25
				09-12-89	45.20
280926082162102	MORRIS BRIDGE SH WELL 532 NR BRANCHTON	28 09 06 N	082 16 21 W	05-16-89	42.78
				09-12-89	45.43
280930082130401	HWY 301 SH MON WELL NR ZEPHYRHILLS,FL	28 09 30 N	082 13 04 W	05-16-89	51.51
				09-12-89	53.47
280951082130401	HWY 39 SH MON WELL NR ZEPHYRHILLS, FL	28 09 51 N	082 13 04 W	09-12-89	77.88
280956082381801	ELD. WILDE DP 139G	28 09 56 N	082 38 18 W	05-15-89	12.46
281002082254101	USGS S.WELL 503 NR ZEPHYRHILLS,FLA	28 10 02 N	082 25 41 W	05-17-89	66.55
				09-13-89	67.59
281012082305701	2295	28 10 12 N	082 30 57 W	05-15-89	56.11
				09-11-89	58.44
281017082380903	ELD. WILDE SH 142	28 10 17 N	082 38 09 W	05-15-89	32.03
				09-11-89	33.06
281059082333901	WELL810 233 5939	28 10 59 N	082 33 39 W	05-15-89	46.80
				09-11-89	49.29

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
HILLSBOROUGH COUNTY							
274406082240701 SW HILLS CO 90 AT RUSKIN (744224444 444) (LAT 27 44 06N LONG 082 24 07W)							
JUN 1989							
15...	1300	770	7.40	25.0	--	--	--
274421082275401 ROMP TRANSECT D.WELL NR RUSKIN, FLA (LAT 27 44 21N LONG 082 27 54W)							
NOV 1988							
17...	1421	--	--	25.0	--	--	--
FEB 1989							
03...	1356	1050	--	24.5	--	--	--
APR							
07...	1031	978	--	24.0	--	--	--
MAY							
17...	1035	1040	--	24.5	--	--	--
JUL							
07...	1450	--	--	--	--	--	--
274428082251502 ROMP TR 9-3 SUWANNEE WELL NEAR RUSKIN, FL (LAT 27 44 28N LONG 082 25 15W)							
NOV 1988							
17...	1331	2100	--	26.0	--	--	--
FEB 1989							
03...	1432	--	--	24.5	--	--	--
APR							
07...	0959	2350	--	23.5	--	--	--
MAY							
17...	0925	--	8.00	24.5	290	130	81
AUG							
02...	1327	2030	--	26.5	--	--	--
274428082251503 ROMP TR 9-3 AVON PARK WELL NEAR RUSKIN, FL (LAT 27 44 28N LONG 082 25 15W)							
MAY 1989							
17...	0927	--	7.90	24.5	590	240	340
275223082195001 E. BRADBURN NR RIVERVIEW (LAT 27 52 23N LONG 082 19 50W)							
JUN 1989							
14...	1130	515	7.00	25.5	--	--	--
275402082222701 ROMP TR10-2 DEEP WELL NR TAMPA FL (LAT 27 54 02N LONG 082 22 27W)							
NOV 1988							
17...	0931	980	--	25.0	--	--	--
FEB 1989							
03...	0900	1000	--	24.0	--	--	--
APR							
07...	1530	935	--	23.5	--	--	--
MAY							
23...	0930	990	--	24.0	--	--	--
JUL							
25...	1042	1050	--	25.0	--	--	--
275402082222702 ROMP TR 10-2 SHALLOW WELL NEAR TAMPA, FL (LAT 27 54 02N LONG 082 22 27W)							
NOV 1988							
17...	0920	1780	--	25.0	--	--	--
FEB 1983							
03...	0830	1660	--	21.0	--	--	--
APR							
07...	1510	1810	--	24.0	--	--	--
MAY							
23...	0919	1800	--	24.5	--	--	--
JUL							
25...	1028	2100	--	26.0	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	STRONTIUM, DISSOLVED (UG/L AS SR)
HILLSBOROUGH COUNTY							
274406082240701 SW HILLS CO 90 AT RUSKIN (744224444 444) (LAT 27 44 06N LONG 082 24 07W)							
JUN 1989							
15...	--	220	25	--	--	--	--
274421082275401 ROMP TRANSECT D.WELL NR RUSKIN, FLA (LAT 27 44 21N LONG 082 27 54W)							
NOV 1988							
17...	--	380	25	--	--	--	--
FEB 1989							
03...	--	400	26	--	--	--	--
APR							
07...	--	390	20	--	--	--	--
MAY							
17...	--	390	24	--	--	--	--
274428082251502 ROMP TR 9-3 SUWANNEE WELL NEAR RUSKIN, FL (LAT 27 44 28N LONG 082 25 15W)							
NOV 1988							
17...	--	--	150	--	--	--	--
FEB 1989							
03...	--	--	250	--	--	--	--
APR							
07...	--	--	240	--	--	--	--
MAY							
17...	2.8	920	290	1.1	24	1910	16000
AUG							
02...	--	--	160	--	--	--	--
274428082251503 ROMP TR 9-3 AVON PARK WELL NEAR RUSKIN, FL (LAT 27 44 28N LONG 082 25 15W)							
MAY 1989							
17...	4.4	1500	1200	1.1	24	4310	33000
275223082195001 E. BRADBURN NR RIVERVIEW (LAT 27 52 23N LONG 082 19 50W)							
JUN 1989							
14...	--	--	47	--	--	--	--
275402082222701 ROMP TR10-2 DEEP WELL NR TAMPA FL (LAT 27 54 02N LONG 082 22 27W)							
NOV 1988							
17...	--	33	180	--	--	--	--
FEB 1989							
03...	--	31	180	--	--	--	--
APR							
07...	--	32	180	--	--	--	--
MAY							
23...	--	--	180	--	--	--	--
JUL							
25...	--	33	180	--	--	--	--
275402082222702 ROMP TR 10-2 SHALLOW WELL NEAR TAMPA, FL (LAT 27 54 02N LONG 082 22 27W)							
NOV 1988							
17...	--	--	53	--	--	--	--
FEB 1989							
03...	--	--	60	--	--	--	--
APR							
07...	--	--	100	--	--	--	--
MAY							
23...	--	--	56	--	--	--	--
JUL							
25...	--	--	71	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
HILLSBOROUGH COUNTY							
275427082221001 TOWER DAIRY 1 NR RIVERVIEW (LAT 27 54 27N LONG 082 22 10W)							
JUN 1989							
14...	1100	800	6.85	24.5	--	--	--
275443082224001 JAMES BYRD NR RIVERVIEW (LAT 27 54 43N LONG 082 22 40W)							
JUN 1989							
15...	1035	1020	7.00	24.5	--	--	--
275611082211701 SEABOARD UTILITIES 8 (LAT 27 56 11N LONG 082 21 17W)							
JUN 1989							
15...	1040	855	6.90	23.5	--	--	--
275705082222001 ROMP TR 11-2 SWNN WELL NR TAMPA, FL (LAT 27 57 05N LONG 082 22 20W)							
OCT 1988							
11...	1015	1150	--	25.0	--	--	--
DEC							
05...	1115	1160	--	24.5	--	--	--
FEB 1989							
06...	1220	1170	--	24.5	--	--	--
APR							
03...	1105	1140	--	24.5	--	--	--
MAY							
15...	1040	1160	7.80	24.5	100	20	110
AUG							
07...	0955	1150	--	25.0	--	--	--
275724082221001 STRUCT. 160 WELL (LAT 27 57 24N LONG 082 22 10W)							
NOV 1988							
09...	1100	755	--	24.5	--	--	--
DEC							
05...	1354	745	--	23.0	--	--	--
JAN 1989							
17...	0935	755	--	21.5	--	--	--
FEB							
06...	1346	770	--	23.0	--	--	--
MAR							
06...	1425	770	--	23.5	--	--	--
APR							
03...	1355	765	--	27.0	--	--	--
MAY							
02...	1035	745	--	26.5	--	--	--
JUN							
15...	1440	681	--	24.5	--	--	--
JUL							
14...	0930	695	--	25.0	--	--	--
AUG							
07...	1115	780	--	30.5	--	--	--
SEP							
05...	1405	650	--	30.0	--	--	--
275817082325001 ROMP TR 12-1 SWNN WELL NEAR TAMPA, FL. (LAT 27 58 17N LONG 082 32 50W)							
OCT 1988							
05...	0930	3590	--	24.0	--	--	--
DEC							
10...	0733	3500	--	20.0	--	--	--
FEB 1989							
09...	0930	3800	--	25.0	--	--	--
APR							
12...	1500	3500	--	25.0	--	--	--
MAY							
12...	0645	3290	7.39	24.5	--	--	--
JUN							
15...	1230	3300	--	24.5	--	--	--
AUG							
10...	1155	3350	--	24.5	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	STRONTIUM, DISSOLVED (UG/L AS SR)
HILLSBOROUGH COUNTY							
275427082221001 TOWER DAIRY 1 NR RIVERVIEW (LAT 27 54 27N LONG 082 22 10W)							
JUN 1989							
14...	--	8.7	86	--	--	--	--
275443082224001 JAMES BYRD NR RIVERVIEW (LAT 27 54 43N LONG 082 22 40W)							
JUN 1989							
15...	--	--	130	--	--	--	--
275611082211701 SEABOARD UTILITIES 8 (LAT 27 56 11N LONG 082 21 17W)							
JUN 1989							
15...	--	63	120	--	--	--	--
275705082222001 ROMP TR 11-2 SWNN WELL NR TAMPA, FL (LAT 27 57 05N LONG 082 22 20W)							
OCT 1988							
11...	--	--	--	--	--	--	--
DEC							
05...	--	--	200	--	--	--	--
FEB 1989							
06...	--	--	260	--	--	--	--
APR							
03...	--	--	200	--	--	--	--
MAY							
15...	3.9	130	200	0.30	18	701	1500
AUG							
07...	--	--	200	--	--	--	--
275724082221001 STRUCT. 160 WELL (LAT 27 57 24N LONG 082 22 10W)							
NOV 1988							
09...	--	--	110	--	--	--	--
DEC							
05...	--	--	110	--	--	--	--
JAN 1989							
17...	--	--	110	--	--	--	--
FEB							
06...	--	--	110	--	--	--	--
MAR							
06...	--	--	110	--	--	--	--
APR							
03...	--	--	110	--	--	--	--
MAY							
02...	--	--	110	--	--	--	--
JUN							
15...	--	--	--	--	--	--	--
JUL							
14...	--	--	110	--	--	--	--
AUG							
07...	--	--	110	--	--	--	--
SEP							
05...	--	--	110	--	--	--	--
275817082325001 ROMP TR 12-1 SWNN WELL NEAR TAMPA, FL. (LAT 27 58 17N LONG 082 32 50W)							
OCT 1988							
05...	--	130	940	--	--	--	--
DEC							
10...	--	130	950	--	--	--	--
FEB 1989							
09...	--	120	970	--	--	--	--
APR							
12...	--	130	950	--	--	--	--
MAY							
12...	--	120	920	0.40	19	2090	--
JUN							
15...	--	140	920	--	--	--	--
AUG							
10...	--	120	950	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE AIR (DEG C)	TEMPER-ATURE WATER (DEG C)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
HILLSBOROUGH COUNTY										
280019082335701 TRUJILLO (LAT 28 00 19N LONG 082 33 57W)										
MAY 1989										
24...	1435	940	--	--	26.0	50	130	--	--	--
280034082362401 CHANNEL A D. WELL 38 NR TAMPA, FL (LAT 28 00 34N LONG 082 36 24W)										
MAY 1989										
23...	1040	1780	--	--	25.5	61	440	--	--	--
280038082340201 CHANNEL G BM DP WELL (LAT 28 00 38N LONG 082 34 02W)										
OCT 1988										
05...	0800	4900	--	--	24.0	280	1300	--	--	--
DEC										
15...	1135	4800	--	--	22.0	280	1300	--	--	--
FEB 1989										
07...	1330	4200	--	--	25.0	260	1200	--	--	--
APR										
12...	1020	4500	--	17.0	24.0	270	1200	--	--	--
MAY										
12...	0945	4560	7.38	--	24.5	260	1200	0.40	16	2970
JUN										
15...	1015	4600	--	--	25.0	260	1100	--	--	--
AUG										
10...	1100	4600	--	--	24.0	250	1300	--	--	--
280053082341801 BRACKETT (LAT 28 00 53N LONG 082 34 18W)										
NOV 1988										
02...	0900	540	--	--	22.0	--	56	--	--	--
JAN 1989										
19...	0745	530	--	--	20.0	--	56	--	--	--
280053082350202 SHELDON RD. DP. (LAT 28 00 53N LONG 082 35 02W)										
OCT 1988										
04...	1445	8500	--	--	25.0	--	2400	--	--	--
DEC										
13...	0639	7600	--	--	22.0	--	2400	--	--	--
FEB 1989										
07...	1145	7950	--	--	24.5	--	2300	--	--	--
APR										
12...	0945	7700	--	16.0	25.0	--	2300	--	--	--
MAY										
11...	1500	8250	7.24	--	25.0	450	2300	0.50	13	5230
JUN										
15...	0945	8100	--	--	25.0	--	2400	--	--	--
AUG										
10...	1015	7500	--	--	24.5	--	2400	--	--	--
280057082340001 FERNANDEZ (LAT 28 00 57N LONG 082 34 00W)										
NOV 1988										
02...	0930	460	--	--	22.0	--	28	--	--	--
JAN 1989										
19...	0900	420	--	--	20.0	--	27	--	--	--
MAY										
12...	1230	451	--	--	24.0	2.0	30	--	--	--
AUG										
14...	1100	445	--	--	25.0	--	30	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE AIR (DEG C)	TEMPER-ATURE WATER (DEG C)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
HILLSBOROUGH COUNTY										
280112082270101 TOURIST CLUB WL NR. NEBRASKA AVE. AND E. RIVER CO(LAT 28 01 12N LONG 082 27 01W)										
OCT 1988										
13...	1245	--	--	--	25.0	--	--	--	--	--
DEC										
15...	1241	10800	--	--	25.0	--	--	--	--	--
FEB 1989										
09...	1245	9800	--	--	24.5	--	3000	--	--	--
APR										
17...	1015	10000	--	27.5	24.5	--	3100	--	--	--
MAY										
09...	1300	9040	--	--	25.0	610	2600	--	--	--
JUN										
19...	1430	13000	--	--	25.0	--	3800	--	--	--
AUG										
11...	1330	15000	--	--	25.0	--	4600	--	--	--
280116082340701 ERNEST KITCHEN (LAT 28 01 16N LONG 082 34 07W)										
NOV 1988										
02...	0830	500	--	--	22.0	--	47	--	--	--
JAN 1989										
19...	0800	480	--	--	20.0	--	45	--	--	--
MAY										
12...	1200	506	--	--	25.0	1.5	48	--	--	--
AUG										
14...	1030	545	--	--	25.0	--	71	--	--	--
280118082340801 A. PULEO (LAT 28 01 18N LONG 082 34 08W)										
NOV 1988										
02...	0845	495	--	--	19.5	--	45	--	--	--
JAN 1989										
19...	0815	481	--	--	20.0	--	45	--	--	--
MAY										
12...	1130	530	--	--	25.0	0.60	48	--	--	--
AUG										
14...	1000	485	--	--	26.0	--	50	--	--	--
280129082341801 HUGH HILL (LAT 28 01 29N LONG 082 34 18W)										
NOV 1988										
02...	0800	510	--	--	22.0	--	51	--	--	--
JAN 1989										
19...	0830	490	--	--	19.0	--	51	--	--	--
MAY										
12...	1100	540	--	--	25.0	1.8	56	--	--	--
AUG										
14...	0930	500	--	--	25.0	--	55	--	--	--
280217082343201 CHANNEL A S. WELL 14 NR TAMPA, FL (LAT 28 02 17N LONG 082 34 32W)										
MAY 1989										
24...	0945	195	--	--	27.5	14	18	--	--	--
280316082345801 ST PETERSBURG E-104 D. WELL NR CITRUS PK,FL (LAT 28 03 16N LONG 082 34 58W)										
OCT 1988										
04...	1215	21500	--	--	25.0	2100	5400	--	--	--
DEC										
12...	1414	19000	--	--	24.0	2200	6900	--	--	--
FEB 1989										
07...	0830	20000	--	--	25.0	2100	6400	--	--	--
APR										
12...	0830	20000	--	13.0	25.0	1100	6800	--	--	--
MAY										
11...	1415	21500	7.56	--	25.0	2200	6700	0.80	13	15900
JUN										
15...	0730	22800	--	15.0	25.0	2300	7000	--	--	--
AUG										
10...	0930	24000	--	--	25.0	2400	8100	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE AIR (DEG C)	TEMPER-ATURE WATER (DEG C)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
HILLSBOROUGH COUNTY										
280354082381901 ROMP TR 13-3 FLR WELL NR CITRUS PARK, FL (LAT 28 03 54N LONG 082 38 19W)										
OCT 1988										
04...	0830	7500	--	--	25.0	--	2000	--	--	--
DEC										
12...	1241	6800	--	--	24.0	560	2000	--	--	--
FEB 1989										
06...	1345	6500	--	--	25.0	--	1900	--	--	--
AUG										
07...	1000	27000	--	--	25.0	--	10000	--	--	--
280504082365501 ST PETE DP. E102 (LAT 28 05 04N LONG 082 36 55W)										
OCT 1988										
04...	0930	461	--	--	24.0	--	9.3	--	--	--
FEB 1989										
06...	1330	400	--	--	24.5	--	11	--	--	--
APR										
11...	1030	418	--	20.0	24.0	--	10	--	--	--
MAY										
11...	0945	400	7.84	--	24.0	32	11	0.30	14	290
JUN										
14...	0940	459	--	--	25.0	--	11	--	--	--
AUG										
07...	0930	415	--	--	24.0	--	12	--	--	--
280548082355701 ST.PETE DP.E100 (LAT 28 05 48N LONG 082 35 57W)										
DEC 1988										
22...	0835	10000	--	--	24.5	--	2200	--	--	--
FEB 1989										
09...	1505	10000	--	--	20.0	--	2200	--	--	--
APR										
13...	1331	10000	--	--	24.0	--	2000	--	--	--
MAY										
18...	1010	10000	--	--	24.0	2600	2200	--	--	--
AUG										
14...	0914	10000	--	--	23.5	--	2000	--	--	--
280603082385401 ST PETE E-103 DP (LAT 28 06 03N LONG 082 38 54W)										
OCT 1988										
12...	0958	40500	--	24.5	24.5	3500	15000	--	--	--
DEC										
08...	0942	40000	--	21.0	25.0	3700	15000	--	--	--
FEB 1989										
06...	0900	--	--	--	25.0	3600	14000	--	--	--
APR										
11...	0940	--	--	21.0	25.0	1800	15000	--	--	--
280605082184101 MORRIS BRIDGE DEEP WELL 12 NEAR BRANCHTON, FL. (LAT 28 06 05N LONG 082 18 41W)										
OCT 1988										
09...	1030	590	--	--	22.5	41	13	--	--	--
DEC										
21...	1010	550	--	--	22.5	46	13	--	--	--
FEB 1989										
06...	0954	586	--	--	23.5	44	14	--	--	--
APR										
04...	0950	560	--	--	22.5	40	13	--	--	--
MAY										
25...	0957	583	--	--	--	42	12	--	--	370

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DEG C)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
HILLSBOROUGH COUNTY						
280652082195101 MORRIS BRIDGE WF 3C (LAT 28 06 52N LONG 082 19 51W)						
OCT 1988						
10...	1215	2800	23.5	1600	60	--
DEC						
22...	1120	2990	--	1500	70	--
FEB 1989						
06...	1500	3000	24.0	1800	71	--
APR						
04...	1445	2990	24.0	1800	72	--
MAY						
25...	1135	2900	--	1700	69	2890

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	SPECIFIC CONDUCTANCE (US/CM)	TEMPERATURE WATER (DEG C)	COLOR (PLATINUM-COBALT UNITS)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)
HILLSBOROUGH COUNTY											
280055082222701 USCE TBC-09 (LAT 28 00 55N LONG 082 22 27W)											
JUN 22...	0930	442	23.0	<5	0.4	68	8.0	11	0.80	55	21
280659082175201 MORRIS BR DP 13 (LAT 28 06 59N LONG 082 17 52W)											
OCT 1988 09...	1115	490	23.5	--	--	--	--	--	--	6.2	9.3
MAY 1989 25...	1030	493	--	--	--	--	--	--	--	1.9	9.1
JUN 13...	1500	497	23.5	5	--	91	5.8	5.6	0.60	2.4	8.6

DATE	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHOROUS TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)
280055082222701 USCE TBC-09 (LAT 28 00 55N LONG 082 22 27W)											
JUN 22...	0.30	14	291	0.060	0.020	0.21	0.090	0.040	100	<1	<1
280659082175201 MORRIS BR DP 13 (LAT 28 06 59N LONG 082 17 52W)											
OCT 1988 09...	--	--	--	--	--	--	--	--	--	--	--
MAY 1989 25...	--	--	290	--	--	--	--	--	--	--	--
JUN 13...	0.20	16	299	0.060	<0.020	<0.20	0.090	0.090	--	--	--

DATE	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	STRONTIUM, DISSOLVED (UG/L AS SR)	ZINC, DISSOLVED (UG/L AS ZN)
280055082222701 USCE TBC-09 (LAT 28 00 55N LONG 082 22 27W)											
JUN 22...	<1	1100	40	<5	<5	30	20	<0.10	1	1100	10
280659082175201 MORRIS BR DP 13 (LAT 28 06 59N LONG 082 17 52W)											
OCT 1988 09...	--	--	--	--	--	--	--	--	--	--	--
MAY 1989 25...	--	--	--	--	--	--	--	--	--	--	--
JUN 13...	--	--	--	--	--	--	--	--	--	420	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE AIR (DEG C)	TEMPER-ATURE WATER (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
HILLSBOROUGH COUNTY												
274119082043501 GRACE SW4 NR FT LONESOME, FL (LAT 27 41 19N LONG 082 04 35W)												
NOV 1988												
16...	1106	--	-	--	--	--	--	--	--	--	--	--
22...	1300	2.93	217	--	23.5	24.5	--	58	48	11	5.1	11
FEB 1989												
07...	0931	--	-	--	--	--	--	--	--	--	--	--
APR												
03...	1520	--	-	--	--	--	--	--	--	--	--	--
10...	1530	--	196	--	--	27.5	--	--	--	--	--	--
MAY												
08...	1605	--	193	--	--	24.0	--	--	--	--	--	--
JUN												
13...	1040	--	178	5.72	--	28.0	--	--	--	--	--	--
13...	1113	--	-	--	--	--	--	--	--	--	--	--
JUL												
12...	1320	4.65	212	6.22	--	27.0	--	--	--	--	--	--
AUG												
07...	1351	--	-	--	--	--	--	--	--	--	--	--
07...	1400	--	240	5.95	--	30.5	--	--	--	--	--	--
SEP												
08...	1030	5.11	207	5.94	--	27.0	--	--	--	--	--	--
274140082050801 WRG-1 SH NR FT LONESOME, FL (LAT 27 41 40N LONG 082 05 08W)												
DEC 1988												
20...	1400	9.71	227	8.49	25.0	23.0	5	12	130	30	13	18
274222082072601 IMC-SH WELL 1 NR FT LONESOME, FL (LAT 27 42 28N LONG 082 07 26W)												
NOV 1988												
22...	1500	6.88	75	--	25.0	24.5	<5	2.3	12	2.0	1.8	3.8
APR 1989												
10...	1140	10.64	74	6.20	--	25.0	--	--	--	--	--	--
MAY												
08...	1307	--	48	--	--	25.0	--	--	--	--	--	--
JUN												
12...	1020	--	70	5.17	--	26.5	--	--	--	--	--	--
JUL												
11...	1407	12.20	75	5.26	--	28.5	--	--	--	--	--	--
AUG												
08...	0930	--	74	5.40	--	29.5	--	--	--	--	--	--
SEP												
05...	0945	--	77	5.43	--	28.0	--	--	--	--	--	--
274223082072301 IMC-DP NR FT LONESOME, FL (LAT 27 42 23N LONG 082 07 23W)												
APR 1989												
10...	1206	--	308	6.10	--	27.0	--	--	--	--	--	--
MAY												
08...	1245	--	310	--	--	28.0	--	--	--	--	--	--
JUN												
12...	0930	--	302	7.46	--	27.5	--	--	--	--	--	--
JUL												
11...	1245	--	310	7.65	--	28.0	--	--	--	--	--	--
AUG												
08...	1015	--	310	7.79	--	27.0	--	--	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	IODIDE, DIS-SOLVED (MG/L AS I)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)
HILLSBOROUGH COUNTY											
274119082043501 GRACE SW4 NR FT LONESOME, FL (LAT 27 41 19N LONG 082 04 35W)											
NOV 1988											
16...	--	--	--	--	--	--	--	--	--	--	--
22...	33	0.7	0.20	9.1	31	0.70	0.022	11	107	98	0.020
FEB 1989											
07...	--	--	--	--	--	--	--	--	--	--	--
APR											
03...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	37	11	--	--	--	117	--	--
MAY											
08...	--	--	--	35	10	--	--	--	99	--	--
JUN											
13...	--	--	--	36	10	--	--	--	100	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
JUL											
12...	--	--	--	17	26	--	--	--	127	--	--
AUG											
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	16	23	--	--	--	127	--	--
SEP											
08...	--	--	--	16	26	--	--	--	136	--	--
274140082050801 WRG-1 SH NR FT LONESOME, FL (LAT 27 41 40N LONG 082 05 08W)											
DEC 1988											
20...	22	0.7	7.2	5.9	10	0.80	0.017	25	198	199	<0.010
274222082072601 IMC-SH WELL 1 NR FT LONESOME, FL (LAT 27 42 28N LONG 082 07 26W)											
NOV 1988											
22...	22	0.5	3.8	7.6	8.0	<0.10	--	1.3	34	32	<0.010
APR 1989											
10...	--	--	--	7.3	8.6	--	--	--	48	--	--
MAY											
08...	--	--	--	7.1	8.1	--	--	--	31	--	--
JUN											
12...	--	--	--	7.4	8.1	--	--	--	29	--	--
JUL											
11...	--	--	--	7.3	8.2	--	--	--	35	--	--
AUG											
08...	--	--	--	7.8	11	--	--	--	45	--	--
SEP											
05...	--	--	--	7.6	11	--	--	--	30	--	--
274223082072301 IMC-DP NR FT LONESOME, FL (LAT 27 42 23N LONG 082 07 23W)											
APR 1989											
10...	--	--	--	0.40	4.9	--	--	--	178	--	--
MAY											
08...	--	--	--	0.30	5.2	--	--	--	160	--	--
JUN											
12...	--	--	--	0.80	5.3	--	--	--	163	--	--
JUL											
11...	--	--	--	0.30	5.6	--	--	--	175	--	--
AUG											
08...	--	--	--	<0.10	5.5	--	--	--	168	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHOROUS TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	PHOSPHOROUS ORTHO, DISSOLVED (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)
HILLSBOROUGH COUNTY											
274119082043501 GRACE SW4 NR FT LONESOME, FL (LAT 27 41 19N LONG 082 04 35W)											
NOV 1988											
16...	--	--	--	--	--	--	--	--	--	--	--
22...	0.020	0.020	0.100	0.15	0.25	4.50	2.20	0.340	1	1	<2
FEB 1989											
07...	--	--	--	--	--	--	--	--	--	--	--
APR											
03...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	2.70	--	--	--
MAY											
08...	--	--	--	--	--	--	--	1.60	--	--	--
JUN											
13...	--	--	--	--	--	--	--	1.80	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
JUL											
12...	--	--	--	--	--	--	--	0.070	--	--	--
AUG											
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
SEP											
08...	--	--	--	--	--	--	--	0.810	--	--	--
274140082050801 WRG-1 SH NR FT LONESOME, FL (LAT 27 41 40N LONG 082 05 08W)											
DEC 1988											
20...	<0.020	<0.020	0.220	0.51	0.73	0.760	0.320	0.050	1	<1	16
274222082072601 IMC-SH WELL 1 NR FT LONESOME, FL (LAT 27 42 28N LONG 082 07 26W)											
NOV 1988											
22...	0.030	0.030	0.060	--	<0.20	0.270	<0.010	<0.010	<1	<1	13
APR 1989											
10...	--	--	--	--	--	--	--	0.010	--	--	--
MAY											
08...	--	--	--	--	--	--	--	0.020	--	--	--
JUN											
12...	--	--	--	--	--	--	--	0.010	--	--	--
JUL											
11...	--	--	--	--	--	--	--	0.021	--	--	--
AUG											
08...	--	--	--	--	--	--	--	0.010	--	--	--
SEP											
05...	--	--	--	--	--	--	--	0.020	--	--	--
274223082072301 IMC-DP NR FT LONESOME, FL (LAT 27 42 23N LONG 082 07 23W)											
APR 1989											
10...	--	--	--	--	--	--	--	0.030	--	--	--
MAY											
08...	--	--	--	--	--	--	--	0.040	--	--	--
JUN											
12...	--	--	--	--	--	--	--	0.030	--	--	--
JUL											
11...	--	--	--	--	--	--	--	0.020	--	--	--
AUG											
08...	--	--	--	--	--	--	--	0.040	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, TOTAL RECOVERABLE (UG/L AS B)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)
HILLSBOROUGH COUNTY											
274119082043501 GRACE SW4 NR FT LONESOME, FL (LAT 27 41 19N LONG 082 04 35W)											
NOV 1988											
16...	--	--	--	--	--	--	--	--	--	--	--
22...	<10	<0.5	30	20	1	1	<5	1	<3	2	<10
274140082050801 WRG-1 SH NR FT LONESOME, FL (LAT 27 41 40N LONG 082 05 08W)											
DEC 1988											
20...	<10	<0.5	30	20	<1	<1	<5	2	<3	8	<10
274222082072601 IMC-SH WELL 1 NR FT LONESOME, FL (LAT 27 42 28N LONG 082 07 26W)											
NOV 1988											
22...	<10	<0.5	<10	20	<1	<1	<5	<1	<3	4	<10

DATE	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)
274119082043501 GRACE SW4 NR FT LONESOME, FL (LAT 27 41 19N LONG 082 04 35W)											
NOV 1988											
16...	--	--	--	--	--	--	--	--	--	--	--
22...	9900	10000	<5	<10	<4	20	21	--	<0.1	<10	<10
274140082050801 WRG-1 SH NR FT LONESOME, FL (LAT 27 41 40N LONG 082 05 08W)											
DEC 1988											
20...	910	13	7	<10	12	30	4	<0.10	<0.1	<10	<10
274222082072601 IMC-SH WELL 1 NR FT LONESOME, FL (LAT 27 42 28N LONG 082 07 26W)											
NOV 1988											
22...	270	190	<5	<10	<4	20	8	<0.10	<0.1	<10	<10

DATE	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L)	URANIUM -238 WATER DISSOLV (PCI/L)	URANIUM -234 WATER DISSOLV (PCI/L)
274119082043501 GRACE SW4 NR FT LONESOME, FL (LAT 27 41 19N LONG 082 04 35W)											
NOV 1988											
16...	--	--	--	--	--	--	--	--	--	--	--
22...	3.0	10	<6	<10	25	78	10	8.1	0.76	<0.10	0.10
274140082050801 WRG-1 SH NR FT LONESOME, FL (LAT 27 41 40N LONG 082 05 08W)											
DEC 1988											
20...	<1.0	140	<6	20	12	8.7	7.6	6.8	2.0	<0.10	<0.10
274222082072601 IMC-SH WELL 1 NR FT LONESOME, FL (LAT 27 42 28N LONG 082 07 26W)											
NOV 1988											
22...	1.0	10	<6	<10	11	5.9	5.5	5.2	0.64	<0.10	<0.10

KEY TO SITE LOCATIONS ON FIGURE 23

MANATEE COUNTY

INDEX NUMBER	SITE NUMBER	PAGE NUMBER
1	271832082064801	162
1	271832082064802	162
2	272058082143701	163
3	272356082181302	163
4	272404082161701	164
5	272510082345701	164
6	272814082034801	165
6	272814082034802	165
7	272823082311701	166
8	272838082142201	166
9	273458082324701	167
9	273458082324702	167
10	273718082315501	168

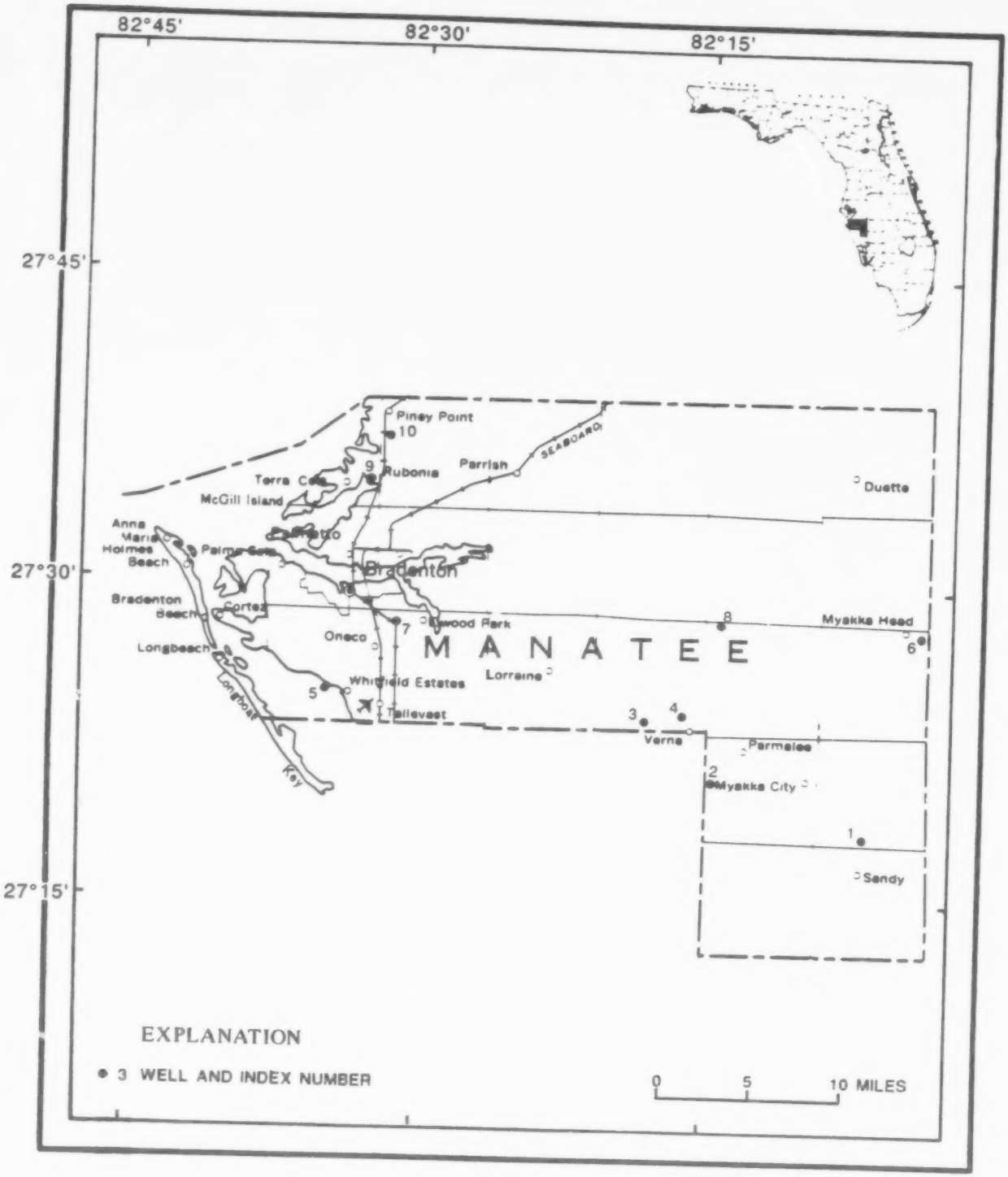

Figure 23.--Location of wells in Manatee County.

MANATEE COUNTY

WELL NUMBER.--271832082064801. Edgeville Deep Well 3 at Edgeville, FL.

LOCATION.--Lat 27°18'32", long 82°06'48", in NE¼NW¼ sec.33, T.36 S., R.22 E., Hydrologic Unit 03100102, 0.5 mi southwest of Edgeville, and 4.3 mi east of Myakka City. Owner: U.S. Geological Survey.

AQUIFER.--Limestone aquifer of Oligocene Age, Geologic Unit 123 LMSN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 600 ft, cased to 487 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Altitude of land-surface datum is 70 ft, from topographic map. Measuring point: Top of casing, 2.9 ft above land-surface datum.

PERIOD OF RECORD.--October 1965 to February 1978 (bimonthly); March 1978 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 46.40 ft NGVD, Oct. 31, 1965; lowest daily maximum water level, 11.39 ft NGVD, May 30, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	e35.60	28.27	30.39	29.88	27.55	20.16	18.48	17.20	12.60	25.39	32.65	33.04
10	34.64	29.09	30.75	28.91	26.57	22.28	19.08	15.56	14.46	27.11	32.64	33.87
15	32.87	28.87	31.36	27.19	24.53	22.33	18.26	13.84	16.52	28.38	33.06	34.03
20	32.08	28.01	31.89	26.19	22.34	21.34	19.18	11.96	18.84	29.49	32.75	33.28
25	30.44	28.95	31.86	26.94	21.40	20.71	18.78	11.92	21.21	30.58	33.12	32.91
EOM	28.82	29.85	31.22	27.72	20.11	19.61	16.56	11.54	23.30	31.75	33.16	33.82
MAX	35.60	29.85	32.06	30.72	27.75	22.43	19.32	17.31	23.30	31.75	33.23	34.12

CAL YR 1988 MAX 37.52
WTR YR 1989 MAX 35.60

e Estimated

WELL NUMBER.--271832082064802. Edgeville Well 4 at Edgeville, FL.

LOCATION.--Lat 27°18'32", long 82°06'48", in NE¼NW¼ sec.33, T.36 S., R.22 E., Hydrologic Unit 03100102, 0.5 mi southwest of Edgeville, and 4.3 mi east of Myakka City. Owner: U.S. Geological Survey.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 120 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 70 ft, cased to 65 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Altitude of land-surface datum is 70 ft, from topographic map. Measuring point: Top of casing, 3.2 ft above land-surface datum.

PERIOD OF RECORD.--October 1965 to June 1967 (monthly); August 1967 to current year (bimonthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 69.93 ft NGVD, Sept. 5, 1971; lowest measured, 63.85 ft NGVD, May 14, 1975.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			APR		
06...	1105	67.77	12...	1015	65.65
DEC			JUN		
13...	1040	67.35	06...	1240	64.74
FEB			AUG		
16...	1010	66.06	02...	1255	68.90

MANATEE COUNTY

WELL NUMBER.--272058082143701. Verna T Well 0-2 near Verna, FL.

LOCATION.--Lat 27°20'58", long 82°14'37", in SW¼NE¼ sec.18, T.36 S., R.21 E., Hydrologic Unit 03100102, 2.5 mi south of State Highway 70, and 4.0 mi southeast of Verna. Owner: City of Sarasota.

AQUIFER.--Tampa limestone of Miocene Age, Geologic Unit 122 TAMP.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 530 ft, cased to 140 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 68.92 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District). Measuring point: Top of recorder shelter floor, 3.00 ft above land-surface datum.

PERIOD OF RECORD.--March 1978 to current year. Prior to October 1978, published as City of Sarasota Well TH 0-2 near Verna.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 32.59 ft NGVD, Aug. 22, 1982; lowest, 6.73 ft below NGVD, May 26, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	23.73	16.13	18.43	18.82	13.84	6.35	4.32	-.18	-4.58	14.50	22.76	23.28
10	23.36	17.05	19.10	16.76	13.17	8.91	2.23	-2.38	-1.16	16.20	22.65	24.42
15	20.66	16.11	e20.80	15.41	11.18	9.20	2.49	-3.29	1.86	17.57	22.76	24.14
20	19.47	15.81	e21.50	11.89	8.95	6.53	3.36	-5.04	5.51	19.11	22.66	23.20
25	18.14	16.45	e21.20	14.58	3.02	5.46	2.04	-6.41	8.98	20.26	22.89	22.66
EOM	16.59	17.84	e20.20	15.86	e-4.20	4.45	.16	-5.16	11.63	21.47	23.58	23.89
MAX	24.10	17.84	21.80	19.80	16.00	9.37	4.73	.77	11.63	21.47	23.58	24.48

CAL YR 1988 MAX 28.16
WTR YR 1989 MAX 24.48

e Estimated

WELL NUMBER.--272356082181302. Verna Deep Well 1A near Verna, FL.

LOCATION.--Lat 27°23'56", long 82°18'13", in NW¼NW¼ sec.34, T.35 S., R.20 E., Hydrologic Unit 03100201, 60 ft north of State Highway 70, and 2.2 mi northwest of Verna. Owner: U.S. Geological Survey.

AQUIFER.--Suwannee limestone of Oligocene Age, Geologic Unit 123 SWNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 to 4 in., depth 480 ft, cased to 412 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 81.94 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.10 ft above land-surface datum.

REMARKS.--Water levels affected by seasonal pumping of nearby irrigation and public supply wells. Extremes may have been exceeded during periods of missing record.

PERIOD OF RECORD.--March 1970 to current year, incomplete. Records of water levels prior to January 1974 are available in files of the Geological Survey.

REVISED RECORDS.--WDR FL-76-3: 1975.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 48.39 ft NGVD, Apr. 3, 1970; lowest, 20.84 ft NGVD, May 28, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	e39.00	34.20	35.53	35.25	33.91	29.05	27.27	24.43	22.39	31.69	35.91	36.66
10	37.93	34.70	35.51	34.20	33.08	30.58	27.03	23.77	24.12	32.69	35.74	36.87
15	36.89	34.60	36.06	33.49	31.80	30.34	26.31	22.73	25.63	33.54	35.85	37.16
20	35.76	34.20	36.41	32.46	30.38	29.08	26.82	21.76	27.29	34.16	35.55	36.74
25	35.31	34.74	36.57	33.41	29.43	28.30	26.49	21.22	29.03	34.55	36.05	36.91
EOM	34.38	35.24	35.98	34.40	28.49	27.96	25.16	21.47	30.42	35.35	36.41	37.41
MAX	39.20	35.24	36.61	35.85	34.39	30.69	27.87	24.89	30.42	35.35	36.41	37.41

CAL YR 1988 MAX 40.39
WTR YR 1989 MAX 39.20

e Estimated

MANATEE COUNTY

WELL NUMBER.--272404082161701. Verna T Well 0-1 near Verna, FL.

LOCATION.--Lat 27°24'04", long 82°16'17", in SE¼SE¼ sec.26, T.35 S., R.20 E., Hydrologic Unit 03100201, 1.0 mi north of State Highway 70, and 1.2 mi northwest of Verna. Owner: City of Sarasota.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 480 ft, cased to 140 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 98.92 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of flange, 3.00 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--March 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 33.32 ft NGVD, Jan. 24, 1984; lowest, 11.24 ft below NGVD, May 27, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	e23.20	e11.20	17.39	16.52	13.42	4.45	e-.10	-5.12	-6.32	13.93	22.36	22.56
10	21.05	e12.40	17.51	14.34	10.36	6.78	e-1.00	-6.77	-2.70	15.87	20.99	23.54
15	18.23	e12.90	18.99	12.57	7.24	5.33	-1.32	-8.04	1.38	17.43	22.06	23.04
20	16.41	13.32	19.65	9.89	5.24	2.83	.27	-10.12	4.39	18.66	20.98	21.66
25	15.01	15.41	19.12	13.47	2.30	2.21	-1.34	-10.45	8.02	19.92	22.02	22.03
EOM	e11.60	16.98	18.06	14.94	1.50	1.12	-4.25	-7.82	11.14	21.44	22.40	23.29
MAX	24.50	16.98	19.80	17.29	14.65	7.12	.60	-3.31	11.14	21.44	22.50	23.80

CAL YR 1988 MAX 27.94
WTR YR 1989 MAX 24.50

e Estimated

WELL NUMBER.--272510082345701. ROMP TR 7-1 Deep Well near Bradenton, FL.

LOCATION.--Lat 27°25'10", long 82°34'57", in SE¼SE¼ sec.22, T.35 S., R.17 E., Hydrologic Unit 03100202, 500 ft north of Bay Drive, 0.4 mi west of U. S. Highway 41, and 5.2 mi southwest of Bradenton. Owner: Southwest Florida Water Management District.

AQUIFER.--Hawthorn formation of Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 340 ft, cased to 320 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Altitude of land-surface datum is 10 ft, from topographic map. Measuring point: Top of recorder shelter floor, 14.23 ft above land-surface datum.

PERIOD OF RECORD.--October 1983 to February 1984 (bimonthly); March 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 22.93 ft NGVD, Sept. 12, 1986; lowest, 11.02 ft NGVD, May 27, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	20.97	18.13	19.41	18.71	18.50	15.90	14.42	13.32	12.90	19.16	20.64	21.76
10	20.38	18.40	19.50	18.29	17.56	16.95	14.37	12.90	13.75	19.46	20.18	22.26
15	19.55	18.18	19.48	17.65	16.59	16.82	13.61	12.26	14.09	19.55	20.82	22.26
20	18.92	18.15	19.67	17.42	16.17	15.86	14.12	11.77	15.43	19.80	20.75	22.09
25	18.59	19.04	19.83	18.01	15.47	15.46	14.07	11.31	17.00	20.24	20.78	22.29
EOM	17.80	19.48	19.43	18.61	14.98	14.96	13.55	12.02	18.14	20.61	21.35	22.46
MAX	21.08	19.48	19.83	19.39	18.60	17.08	14.78	13.72	18.14	20.61	21.38	22.46

CAL YR 1988 MAX 22.89
WTR YR 1989 MAX 22.46

MANATEE COUNTY

WELL NUMBER.--272814082034801. ROMP 32 Avon Park Well at Myakka Head, FL.

LOCATION.--Lat 27°28'14", long 82°03'48", in SW¼SE¼ sec.36, T.34 S., R.22 E., Hydrologic Unit 03100101, 150 ft north of State Highway 64, 0.6 mi west of Hardee County line, and 0.8 mi east of Myakka Head. Owner: Southwest Florida Water Management District.

AQUIFER.--Avon Park formation of Eocene Age, Geologic Unit 124 AVPK.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 8 in., depth 1,215 ft, cased to 909 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 104.11 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.53 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby irrigation wells. Well also sampled for water quality.

PERIOD OF RECORD.--February 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 42.94 ft NGVD, Oct. 11, 1982; lowest, 3.49 ft below NGVD, May 28, 29, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	36.07	25.32	27.97	27.08	21.29	9.33	9.33	7.34	-1.43	e17.80	28.11	29.85
10	35.42	25.76	27.15	25.23	20.00	12.60	10.08	4.73	1.02	e19.80	28.58	30.72
15	33.14	26.34	28.75	22.58	17.62	13.19	8.16	e.90	e3.20	e21.30	29.25	30.83
20	31.18	25.28	27.53	21.22	15.11	12.20	e9.50	-.91	e7.40	22.58	29.16	30.30
25	28.88	25.99	28.56	21.95	6.37	11.79	8.24	-1.78	e11.00	24.32	29.56	30.19
EOM	26.04	27.21	27.89	22.81	5.14	10.43	6.41	-2.53	e15.00	26.52	29.71	31.20
MAX	36.55	27.21	29.17	27.96	22.28	13.31	10.20	7.34	15.00	26.52	29.86	31.20

CAL YR 1988 MAX 38.02
WTR YR 1989 MAX 36.55

e Estimated

WELL NUMBER.--272814082034802. ROMP 32 Suwannee Well at Myakka Head, FL.

LOCATION.--Lat 27°28'14", long 82°03'48", in SW¼SE¼ sec.36, T.34 S., R.22 E., Hydrologic Unit 03100102, 150 ft north of State Highway 64, 0.6 mi west of Hardee County line, and 0.8 mi east of Myakka Head. Owner: Southwest Florida Water Management District.

AQUIFER.--Suwannee limestone of Oligocene Age, Geologic Unit 123 SWNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 600 ft, cased to 560 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 103.89 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of shelter floor, 3.70 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby irrigation wells.

PERIOD OF RECORD.--February 1980 to September 1988; October 1988 to September 1989 (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 43.72 ft NGVD, Oct. 11, 1982; lowest measured, 0.82 ft below NGVD, June 7, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
06...	1210	36.01	15...	1245	2.51
DEC			JUN		
09...	1101	27.83	07...	1115	-0.82
FEB			AUG		
14...	1150	17.72	02...	1135	26.90
APR			SEP		
11...	0930	10.20	11...	1415	30.71

MANATEE COUNTY

WELL NUMBER.--272823082311701. Bradenton Stone Well near Bradenton, FL.

LOCATION.--Lat 27°28'23", long 82°31'17", in NW¼NE¼ sec.5, T.35 S., R.18 E., Hydrologic Unit 03100202, 0.2 mi south of 26th Avenue, and 2.8 mi southeast of Bradenton. Owner: American Stone Corporation.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused irrigation well, diameter 6 in., depth 600 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 8.40 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 21.60 ft above land-surface datum.

PERIOD OF RECORD.--December 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 21.16 ft NGVD, Apr. 2, 1983; lowest, 3.72 ft below NGVD, May 27, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	16.08	9.78	13.81	11.78	11.44	6.33	2.79	1.27	-.51	13.64	e16.30	17.76
10	14.81	11.77	13.15	10.43	8.64	8.83	2.40	-.59	3.21	14.62	15.90	18.33
15	13.05	11.46	14.20	8.85	6.82	8.02	.96	-1.82	4.15	15.09	16.41	18.16
20	11.41	10.30	14.84	8.80	5.22	4.87	3.29	-2.82	6.75	14.98	15.85	17.83
25	10.68	12.36	14.44	11.39	3.54	4.03	2.67	-3.26	9.74	e15.30	16.62	17.84
EOM	8.81	13.66	12.96	12.41	2.93	3.77	.59	-1.83	11.89	e15.90	17.56	18.39
MAX	16.15	13.66	15.00	12.77	12.40	8.83	3.49	1.27	11.89	15.90	17.56	18.40

CAL YR 1988 MAX 18.90
WTR YR 1989 MAX 18.40

e Estimated

WELL NUMBER.--272838082142201. Kibler Deep Well 26B near Bethany, FL.

LOCATION.--Lat 27°28'38", long 82°14'22", in SE¼NE¼ sec.31, T.34 S., R.21 E., Hydrologic Unit 03100102, 0.2 mi north of State Highway 64, and 1.6 mi east of Bethany. Owner: Kibler Ranch Inc.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused irrigation, artesian well, diameter 8 in., depth 1,123 ft, cased to 208 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Altitude of land-surface datum is 101 ft, from topographic map. Measuring point: Top of recorder shelter floor, 3.0 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby irrigation wells.

PERIOD OF RECORD.--June 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 29.30 ft estimated, NGVD, Aug. 20, 1978; lowest, 24.47 ft below NGVD, May 26, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	17.02	5.41	10.42	8.53	5.18	-5.90	-11.05	-17.70	-18.81	7.52	17.78	16.51
10	14.81	7.55	10.48	6.03	.91	-3.24	-12.80	-19.28	-13.34	9.77	15.63	17.63
15	11.14	6.47	12.31	3.55	-3.41	-6.30	-12.18	e-21.00	-7.94	11.55	16.36	16.56
20	8.94	4.39	12.66	.74	-5.13	-8.58	-10.50	e-21.50	-4.56	12.99	15.21	14.40
25	7.33	7.57	12.33	5.44	-8.98	-8.69	-13.36	-24.03	.29	14.77	16.60	15.58
EOM	4.72	9.76	10.15	7.08	-11.22	-10.26	-16.28	-21.05	4.05	e16.60	16.22	17.46
MAX	17.05	9.76	12.93	9.88	6.85	-2.47	-9.91	-15.45	4.05	16.60	17.79	18.00

CAL YR 1988 MAX 23.37
WTR YR 1989 MAX 18.00

e Estimated

MANATEE COUNTY

WELL NUMBER.--273458082324701. ROMP TR 8-1 Avon Park Well at Rubonia, FL.

LOCATION.--Lat 27°34'58", long 82°32'47", in NW¼NW¼ sec.30, T.33 S., R.18 E., Hydrologic Unit 03100206, 0.35 mi east of Bayshore Road, and 0.5 mi northeast of Rubonia. Owner: Southwest Florida Water Management District.

AQUIFER.--Avon Park formation of Eocene Age, Geologic Unit 124 AVPK.

WELL CHARACTERISTICS (corrected).--Drilled, observation, artesian well, diameter 2 in., depth 1,170 ft, cased to 1,130 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 15.20 ft (corrected) above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 9.28 ft (corrected) above land-surface datum.

PERIOD OF RECORD.--October 1987 to September 1988 (monthly), incomplete; October 1988 to September 1989 (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.97 ft below NGVD, Aug. 18, 1988; lowest measured, 19.39 ft below NGVD, May 17, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
NOV			APR		
14...	1405	-9.95	07...	1139	-15.57
JAN			MAY		
27...	1028	-9.35	17...	1148	-19.39
FEB			AUG		
02...	1345	-9.75	03...	1109	-6.53

WELL NUMBER.--273458082324702. ROMP TR 8-1 Hawthorn Well at Rubonia, FL.

LOCATION.--Lat 27°34'58", long 82°32'47", in NW¼NW¼ sec.30, T.33 S., R.18 E., Hydrologic Unit 031000203, 0.4 mi east of Bayshore Road, and 0.5 mi northeast of Rubonia. Owner: Southwest Florida Water Management District.

AQUIFER.--Intermediate aquifer system of Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 8 in., depth 321 ft, cased to 236 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 15.20 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of steel casing, 4.09 ft above land-surface datum.

PERIOD OF RECORD.--October 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 19.08 ft NGVD, Sept. 9, 15, 1988; lowest, 2.58 ft NGVD, May 28, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	16.85	12.73	15.32	13.55	13.14	10.74	7.78	6.86	5.77	15.52	17.00	17.63
10	15.14	13.69	14.85	12.50	11.38	12.09	7.43	5.28	8.56	15.77	16.08	18.37
15	14.00	13.70	15.64	11.54	10.09	11.17	6.49	4.55	9.03	15.82	16.78	17.93
20	13.10	13.06	15.85	11.21	9.31	9.04	8.35	3.33	10.51	15.60	16.11	17.45
25	12.40	14.52	15.72	13.44	7.34	9.04	7.20	2.94	12.73	16.55	16.94	18.05
EOM	11.42	15.36	13.95	14.38	7.34	8.11	5.73	4.42	14.27	16.89	17.60	18.35
MAX	17.03	15.45	15.85	14.60	14.39	12.09	8.35	7.24	14.27	17.05	17.60	18.47

CAL YR 1988 MAX 19.08
WTR YR 1989 MAX 18.47

MANATEE COUNTY

WELL NUMBER.--273718082315501. Florida Power and Light Well at Piney Point, FL.

LOCATION.--Lat 27°37'18", long 82°31'55", in NE¼SE¼ sec.7, T.33 S., R.18 E., Hydrologic Unit 03100206, 0.4 mi east of U. S. Highway 41, and 0.8 mi southeast of Piney Point. Owner: J.H. Willis.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused private, artesian well, diameter 12 in., depth 950 ft, cased to 104 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Altitude of land-surface datum is 11 ft, from topographic map. Measuring point: Top of recorder shelter floor, 10.15 ft above land-surface datum.

PERIOD OF RECORD.--May 1978 to current year. Prior to October 1979, published as (273718082315401) Willis Well at Piney Point.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 19.49 ft NGVD, Aug. 14, 1978; lowest, 4.84 ft below NGVD, May 26, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	14.60	9.32	12.00	9.59	8.82	7.10	2.16	.92	-.68	13.32	e14.60	15.81
10	12.50	10.39	11.51	8.51	6.34	8.38	2.32	e-1.80	4.44	12.74	e13.75	16.72
15	10.73	9.89	13.47	7.09	4.50	6.17	1.04	e-1.90	4.37	e13.45	e13.74	16.46
20	9.04	8.96	13.39	7.02	4.13	3.64	2.63	-3.29	6.88	e14.35	13.50	15.77
25	8.06	11.68	13.10	11.36	.10	4.76	.95	-4.34	9.88	e15.45	14.60	16.32
EOM	7.42	12.77	10.70	11.60	1.61	2.66	-.15	-1.36	11.73	15.36	15.32	16.82
MAX	14.82	12.85	13.68	11.99	11.10	8.58	2.93	1.91	11.73	18.55	15.75	16.82

CAL YR 1988 MAX 17.75
WTR YR 1989 MAX 16.82

e Estimated

STATION NUMBER	STATION NAME	LAT-I-TUDE	LONG-I-TUDE	DATE	ELEV-ATION ABOVE NGVD (FEET)
	MANATEE COUNTY				
271228082072101	AMAX WELL 813 NR MYAKKA CIT., FL	27 12 28 N	082 07 21 W	05-15-89	29.48
				09-11-89	36.89
271422082150201	2202	27 14 22 N	82 15 02 W	09-11-89	32.39
271450082035801	WELL 714-203-5058	27 14 50 N	082 03 58 W	05-19-89	25.50
				09-15-89	39.10
271622082040101	IMC GOLDEN RAINBOW WELL 803 MYAKKA CITY, FL	27 16 22 N	082 04 01 W	05-15-89	24.85
				09-11-89	38.55
271623082065901	SANDY CHURCH WELL 804 AT SANDY, FL	27 16 23 N	082 06 59 W	05-15-89	40.60
				09-11-89	47.23
271906082112401	ROMP 23 DP NR MYAKKA CITY	27 19 06 N	082 11 24 W	05-15-89	7.75
				09-11-89	26.99
271906082112402	ROMP 23-2 (NORTH WELL) 48B NR MYAKKA CITY, FL	27 19 06 N	082 11 24 W	05-15-89	8.67
				09-11-89	30.29
272051082094601	MYAKKA CITY COMM. CNTR WELL NEAR MYAKKA CITY,FL	27 20 51 N	082 09 46 W	05-15-89	17.64
				09-11-89	31.58
272301082145901	CLOVERDALE FARM D. WELL NR VERNA,FL	27 23 01 N	082 14 59 W	09-12-89	21.84
272324082383101	SEA CLUB BEACH RESORT WELL AT LONGBOAT KEY	27 23 24 N	082 38 31 W	09-13-89	15.08
272412082303601	LOCKWOOD RD (BARTH) D. WELL NR BRADENTON	27 24 12 N	082 30 36 W	05-15-89	2.58
				09-12-89	18.52
272423082051901	PARKS D. WELL NR MYAKKA HEAD,FL	27 24 23 N	082 05 19 W	05-15-89	-3.44
				09-11-89	26.82
272523082033601	HORACE GOUGH WELL NR MYAKKA HEAD,FL	27 25 23 N	082 03 36 W	05-15-89	0.11
272735082083401	USGS D. WELL NR MYAKKA HEAD,FL	27 27 35 N	082 08 34 W	05-16-89	-8.06
				09-12-89	26.82
272827082141601	KIBLER LOOKOUT TOWER WELL NR BRADENTON, FL	27 28 27 N	082 14 16 W	05-16-89	-17.90
272830082245801	BRUCE WAGER WELL 24 NR BRADENTON, FL	27 28 30 N	082 24 58 W	05-16-89	1.65
				09-12-89	17.63
272905082264301	SR 64 D. WELL NR BRADENTON	27 29 05 N	082 26 43 W	05-16-89	-11.93
				09-12-89	16.75
273000082082901	BEKER W-2 NR MYAKKA HEAD	27 30 00 N	082 08 29 W	05-15-89	-4.34
				09-12-89	24.56
273002082081701	BEKER, HAWTHORN	27 30 02 N	082 08 17 W	05-15-89	-40.17
273039082175301	RUTLAND-OAK KNOLL WELL	27 30 39 N	082 17 53 W	05-16-89	-28.20
				09-12-89	18.38
273134082344601	MANATEE FAIRGROUNDS AT PALMETTO	27 31 34 N	082 34 46 W	05-15-89	5.53
273159082373101	SNEADS ISLAND NR PALMETTO, FL	27 31 59 N	082 37 31 W	05-15-89	11.45
				09-13-89	16.95
273253082072801	ESTECH HAWTHORN 44 NR DUETTE, FL	27 32 53 N	082 07 28 W	05-15-89	100.56
				09-11-89	101.94
273255082072601	SWIFT-AVON PARK ON DUETTE RD NR DUETTE	27 32 55 N	082 07 26 W	05-15-89	6.90
				09-11-89	34.38
273259082221401	KOEHLER WELL ON RYR RD NR PARRISH	27 32 59 N	082 22 14 W	05-15-89	-17.08
273347082354101	TERRIA CEIA WELL NR SUNSHINE SKYWAY BR	27 33 47 N	082 35 41 W	05-16-89	8.80
				09-13-89	19.50
273354082352401	GEORGE STEVENS WELL 27A NR TERRA CEIA, FL	27 33 54 N	082 35 24 W	09-13-89	10.10
273506082253701	ELLEN MATHESON WELL AT PARRISH, FL	27 35 06 N	082 25 37 W	05-15-89	-3.77
				09-11-89	18.65
273536082260301	GRIFFIN D. WELL AT PARRISH	27 35 36 N	082 26 03 W	05-15-89	-10.82
				09-11-89	17.16
273605082071101	BUSBY D. WELL ON DUETTE RD AT DUETTE	27 36 05 N	082 07 11 W	05-15-89	8.92
				09-11-89	34.83

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1988 TO SEPTEMBER 1989

STATION NUMBER	STATION NAME	LAT-I-TUDE	LONG-I-TUDE	DATE	ELEV-ATION ABOVE NGVD (FEET)
	MANATEE COUNTY				
273629082090701	AVON PARK NORTH TEST HOLE-SWIFT	27 36 29 N	082 09 07 W	05-15-89	0.37
				09-11-89	29.61
273729082091401	MOODY WELL 801 NR DUETTE, FL	27 37 29 N	082 09 14 W	05-15-89	93.68
				09-11-89	95.49
273731082270301	BUCKEYE RD BEND WELL NR PARRISH	27 37 31 N	082 27 03 W	05-15-89	-12.63
				09-11-89	16.19

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	COLOR (PLATINUM-COBALT UNITS)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)
MANATEE COUNTY								
272510082345701 ROMP WELL TR7-1 NEAR BRADENTON FL (LAT 27 25 10N LONG 082 34 57W)								
OCT 1988								
07...	1430	--	1180	--	26.0	--	--	--
DEC								
12...	1310	--	1130	--	26.0	--	--	--
FEB 1989								
10...	1103	--	1120	--	25.0	--	--	--
APR								
12...	1420	--	1180	--	24.5	--	--	--
MAY								
23...	1100	--	1140	7.34	27.5	--	100	50
AUG								
08...	1300	--	1220	--	27.0	--	--	--
272814082034801 ROMP WELL 32 AVON PARK NR MYAKKA HEAD,FL (LAT 27 28 14N LONG 082 03 48W)								
OCT 1988								
06...	1200	--	440	--	26.0	--	--	--
DEC								
09...	0945	--	300	--	25.5	--	--	--
FEB 1989								
14...	1135	--	325	--	26.0	--	--	--
APR								
11...	1000	--	280	--	25.0	--	--	--
JUN								
07...	1130	950	300	--	25.0	--	--	--
AUG								
02...	1200	--	320	--	25.0	<5	29	0.50
273458082324701 ROMP TR8-1 AVPK WELL NR RUBONIA, FL (LAT 27 34 58N LONG 082 32 47W)								
NOV 1988								
14...	1405	--	49500	--	24.5	--	--	--
JAN 1989								
27...	1026	--	--	--	--	--	--	--
FEB								
02...	1345	--	--	--	24.5	--	--	--
APR								
07...	1139	--	49100	--	24.0	--	--	--
MAY								
17...	1148	--	50700	7.20	24.5	--	1400	1000
AUG								
03...	1109	--	--	--	25.0	--	--	--
273842082175001 S W HILLSBOROUGH 3 NR WIMAUMA (LAT 27 38 42N LONG 082 17 50W)								
JUN 1989								
15...	1400	--	585	7.30	26.0	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)
MANATEE COUNTY							
272510082345701 ROMP WELL TR7-1 NEAR BRADENTON FL (LAT 27 25 10N LONG 082 34 57W)							
OCT 1988							
07...	--	--	88	--	--	--	--
DEC							
12...	--	--	92	--	--	--	--
FEB 1989							
10...	--	340	89	--	--	--	--
APR							
12...	--	350	94	--	--	--	--
MAY							
23...	46	350	82	2.1	21	801	17000
AUG							
08...	--	350	92	--	--	--	--
272814082034801 ROMP WELL 32 AVON PARK NR MYAKKA HEAD,FL (LAT 27 28 14N LONG 082 03 48W)							
OCT 1988							
06...	--	--	10	--	--	--	--
DEC							
09...	--	--	11	--	--	--	--
FEB 1989							
14...	--	--	12	--	--	--	--
APR							
11...	--	--	12	--	--	--	--
JUN							
07...	--	--	11	--	--	--	--
AUG							
02...	17	91	12	1.1	12	202	17000
273458082324701 ROMP TR8-1 AVPK WELL NR RUBONIA, FL (LAT 27 34 58N LONG 082 32 47W)							
NOV 1988							
14...	--	3300	18000	--	--	--	--
JAN 1989							
27...	--	--	--	--	--	--	--
FEB							
02...	--	3100	18000	--	--	--	--
APR							
07...	--	--	18000	--	--	--	--
MAY							
17...	10000	3300	18000	1.4	16	37400	31000
AUG							
03...	--	3200	18000	--	--	--	--
273842082175001 S W HILLSBOROUGH 3 NR WIMAUMA (LAT 27 38 42N LONG 082 17 50W)							
JUN 1989							
15...	--	110	10	--	--	--	--

KEY TO SITE LOCATIONS ON FIGURE 24

PASCO COUNTY

INDEX NUMBER	SITE NUMBER	PAGE NUMBER	INDEX NUMBER	SITE NUMBER	PAGE NUMBER
1	281023082075701	175	15	281622082241301	185
2	281025082384601	175	16	281636082372001	186
3	281037082071801	176	16	281636082372002	186
4	281053082310401	177	17	281715082164401	187
4	281053082310402	177	17	281715082164402	187
5	281101082292501	178	18	281917082420901	188
5	281101082292502	178	19	281918082264601	188
6	281117082291501	179	19	281918082264602	189
7	281120082245501	179	20	281922082403901	189
8	281124082353001	180	21	281923082252201	190
9	281143082304702	181	21	281923082252202	190
9	281143082304703	181	22	281926082212901	191
10	281222082393401	182	22	281926082212903	191
10	281222082393403	182	23	281949082332001	192
11	281424082192701	183	23	281949082332002	192
11	281424082192702	183	24	282009082373801	193
12	281448082301801	184	25	282540082275701	194
13	281504082104801	184	25	282540082275702	194
14	281558082264601	185			

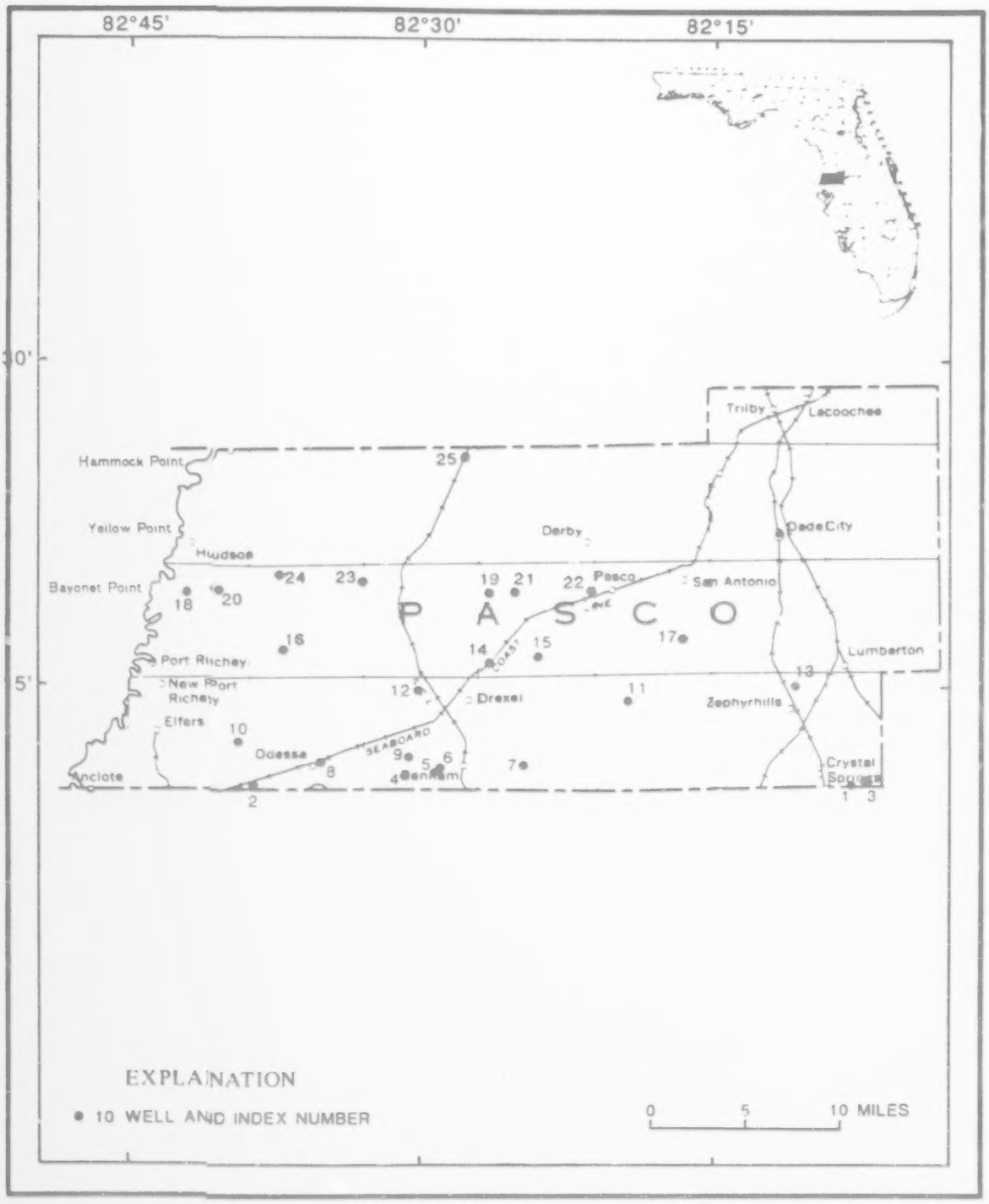

Figure 24.--Location of wells in Pasco County.

PASCO COUNTY

WELL NUMBER.--281023082075701. Weicht Deep Well near Crystal Springs, FL.

LOCATION.--Lat 28°10'23", long 82°07'57", in SE¼SW¼ sec.32, T.26 S., R.22 E., Hydrologic Unit 03100205, 1.5 mi east of State Highway 39, and 1.8 mi southeast of town of Crystal Springs. Owner: C. F. Industries.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, domestic, artesian well, diameter 3 in., depth 100 ft, cased to 60 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Altitude of land-surface datum is 90 ft, from topographic map. Measuring point: Top of casing, 1.0 ft above land-surface datum.

PERIOD OF RECORD.--May 1973 to September 1977 (semiannually); October 1977 to current year (bimonthly), incomplete. Records of water levels prior to October 1977 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 83.78 ft NGVD, Sept. 19, 1973; lowest measured, 73.86 ft NGVD, July 6, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
06...	1203	81.21	16 ..	1235	76.88
DEC			JUN		
19...	1106	82.87	14...	1019	75.54
FEB			AUG		
09...	0918	81.94	31...	1105	79.78
APR					
03...	1335	79.35			

WELL NUMBER.--281025082384601. Eldridge-Wilde Mitchell Well near Tarpon Springs, FL.

LOCATION.--Lat 28°10'25", long 82°38'46", in SW¼SW¼ sec.31, T.26 S., R.17 E., Hydrologic Unit 03100207, 2.1 mi north of State Highway 582, and 7.0 mi east of Tarpon Springs. Owner: W. H. Mitchell.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused test, artesian well, diameter 10 in., depth 608 ft, cased to 42 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 36.42 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of extension, 1.76 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells. Extremes may have been exceeded during periods of missing record.

PERIOD OF RECORD.--November 1972 to July 1974, incomplete; December 1974 to September 1975 (quarterly), incomplete; October 1975 to June 1977 (monthly); July 1977 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 26.19 ft NGVD, Apr. 6, 1987; lowest, 3.68 ft NGVD, June 18, 1988.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	16.29	14.63	20.54	9.93	12.33	9.11	10.77	10.86	9.29	13.71	12.02	9.14
10	14.08	8.41	20.75	10.50	12.94	10.45	14.26	8.58	11.74	11.88	9.80	7.46
15	15.69	7.81	21.07	9.05	10.22	8.77	14.98	6.36	8.06	10.24	9.59	8.60
20	11.80	8.60	e13.40	9.15	7.78	7.15	14.36	9.13	11.66	9.38	8.97	9.46
25	13.27	18.47	18.07	18.31	10.41	7.65	10.07	9.32	12.03	15.02	10.61	9.20
EOM	9.06	20.84	10.04	16.45	13.61	14.19	8.99	12.95	10.55	12.87	6.74	8.11
MAX	17.36	20.84	21.92	18.31	18.67	16.76	15.17	12.95	15.27	15.09	13.78	14.83

CAL YR 1988 MAX 21.92
WTR YR 1989 MAX 21.92

e Estimated

PASCO COUNTY

WELL NUMBER.--281037082071801. J. Alston Well near Crystal Springs, FL.

LOCATION.--Lat 28°10'37", long 82°07'18", in NW¼SW¼ sec.33, T.26 S., R.22 E., Hydrologic Unit 03100205, 2.3 mi east of State Highway 39, and 2.3 mi east of town of Crystal Springs. Owner: J. Alston.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused domestic, artesian well, diameter 2 in., depth 55 ft, cased to 47 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 94.00 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.50 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby industrial wells.

PERIOD OF RECORD.--September 1962 to current year (bimonthly), incomplete. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 91.33 ft NGVD, Sept. 24, 1962; lowest measured, 80.52 ft NGVD, July 6, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
05...	1212	88.18	16...	1243	83.85
DEC			JUN		
19...	1112	89.41	14...	1029	82.44
FEB			AUG		
09...	0927	88.65	31...	1200	85.67
APR			SEP		
03...	1344	86.36	12...	1250	85.96

PASCO COUNTY

WELL NUMBER.--281053082310401. St. Petersburg Deep Well 105 near Land O'Lakes, FL.

LOCATION.--Lat 28°10'53", long 82°31'04", in SW¼NW¼ sec.33, T.26 S., R.18 E., Hydrologic Unit 03100207, 1.2 mi south of State Highway 54, and 3.2 mi west of Land O'Lakes. Owner: City of St. Petersburg.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 1,360 ft, cased to 1,012 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 58.45 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.60 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells. Well also sampled for water quality.

PERIOD OF RECORD.--January 1973 to September 1981; October 1981 to May 1983 (monthly); May 1983 to September 1989 (discontinued). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 52.10 ft NGVD, Feb. 10, 1973; lowest, 30.19 ft NGVD, June 19, 1988.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	e44.50	45.45	47.66	46.90	46.92	47.13	43.15	43.55	36.95	43.82	42.66	42.51
10	e45.10	45.81	47.58	46.89	46.56	46.85	42.76	38.66	e38.50	43.45	41.24	43.29
15	e45.40	45.47	49.37	45.84	46.43	44.74	43.65	37.73	e37.10	41.85	41.79	42.37
20	46.31	44.95	48.77	47.69	45.32	43.39	43.69	35.53	41.43	40.49	42.40	44.59
25	45.60	48.45	47.51	48.45	46.49	45.81	40.47	36.40	43.10	44.22	41.49	46.90
EOM	43.79	49.15	46.84	48.31	44.67	44.31	40.45	41.65	44.22	42.71	42.43	46.77
MAX	46.31	49.15	49.80	48.59	48.48	48.06	45.22	43.71	44.22	44.36	43.20	46.90

CAL YR 1988 MAX 50.17
WTR YR 1989 MAX 49.80

e Estimated

WELL NUMBER.--281053082310402. St. Petersburg Shallow Well 105 near Land O'Lakes, FL.

LOCATION.--Lat 28°10'53", long 82°31'04", in SW¼NW¼ sec.33, T.26 S., R.18 E., Hydrologic Unit 03100207, 1.2 mi south of State Highway 54, and 3.2 mi west of Land O'Lakes. Owner: City of St. Petersburg.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 111 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 20 ft, cased to 18 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 57.82 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.20 ft above land-surface datum.

PERIOD OF RECORD.--March 1973 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 59.23 ft NGVD, Sept. 9, 10, 1988; lowest, 51.12 ft NGVD, June 7, 1985.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	58.17	57.84	58.38	57.64	57.77	57.55	57.12	54.61	53.46	e54.80	55.00	57.46
10	57.95	57.28	58.22	57.52	57.56	57.26	56.35	e54.70	53.89	e54.50	55.52	56.70
15	57.67	57.15	58.30	57.43	57.43	56.99	57.41	54.47	53.34	54.51	54.97	56.62
20	57.51	57.04	58.14	57.80	57.26	56.78	56.28	54.10	53.56	54.54	55.15	56.84
25	57.34	58.77	58.00	58.01	57.28	57.27	55.62	53.87	e55.30	56.14	56.61	57.82
EOM	57.12	58.62	57.80	57.92	57.14	57.12	55.07	54.05	e55.30	55.94	57.20	57.55
MAX	58.26	58.77	58.58	58.11	57.91	57.87	57.41	54.98	55.40	56.24	57.20	57.82

CAL YR 1988 MAX 59.23
WTR YR 1989 MAX 58.77

e Estimated

PASCO COUNTY

WELL NUMBER.--281101082292501. Harry Matts Deep Well near Land O'Lakes, FL.

LOCATION.--Lat 28°11'01", long 82°29'25", in NW¼NE¼ sec.34, T.26 S., R.18 E., Hydrologic Unit 03100207, 1.5 mi west of U. S. Highway 41, and 3.2 mi southwest of Land O'Lakes. Owner: Harry Matts.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 2 in., depth 60 ft, cased to 59 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 68.03 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of male adapter, 1.50 ft above land-surface datum.

PERIOD OF RECORD.--May 1972 to September 1976 (semiannually); October 1976 to September 1977 (bimonthly); October 1977 to September 1978 (monthly); October 1978 to current year (bimonthly). Records of water levels prior to October 1977 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 61.32 ft NGVD, Apr. 7, 1983; lowest measured, 54.41 ft NGVD, May 13, 1976.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
DEC			JUN		
21...	1115	60.78	01...	1315	57.80
APR			AUG		
13...	1443	59.75	08...	1550	56.91
MAY			SEP		
15...	1355	58.77	11...	1326	56.83

WELL NUMBER.--281101082292502. Harry Matts Shallow Well near Land O'Lakes, FL.

LOCATION.--Lat 28°11'01", long 82°29'25", in NW¼NE¼ sec.34, T.26 S., R.18 E., Hydrologic Unit 03100207, 1.5 mi west of U. S. Highway 41, and 3.2 mi southwest of Land O'Lakes. Owner: Harry Matts.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 10.4 ft, cased to 8 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 68.09 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of male adapter, 1.50 ft above land-surface datum.

PERIOD OF RECORD.--May 1972 to September 1976 (semiannually); October 1976 to current year (bimonthly), incomplete. Records of water levels prior to October 1977 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 65.45 ft NGVD, Sept. 19, 1979; well observed dry at times some years.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
DEC			JUN		
21...	1115	64.33	01...	1320	61.02
APR			AUG		
13...	1441	62.62	08...	1548	60.29
MAY			SEP		
15...	1350	61.68	11...	1325	61.39

PASCO COUNTY

WELL NUMBER.--281117082291501. Pasco Deep Well 207 near Land O'Lakes, FL.

LOCATION.--Lat 28°11'17", long 82°29'15", in SE¼SE¼ sec.27, T.26 S., R.18 E., Hydrologic Unit 03100207, on Henley Road, 0.6 mi south of State Highway 54, and 2.9 mi southwest of Land O'Lakes. Owner: G. L. Henley

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, irrigation, artesian well, diameter 6 in., depth 173 ft, cased to 72 ft.

INSTRUMENTATION.--Monthly measurement with steel tape.

DATUM.--Land-surface datum is 70.14 ft above National Geodetic Vertical Datum of 1929. Measuring point: Access hole in pump base, 1.20 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby irrigation and public supply wells.

PERIOD OF RECORD.--February 1970 to September 1972 (about twice yearly); January 1973 to current year (monthly), incomplete. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 63.06 ft NGVD, Feb. 18, 1970; lowest measured, 51.53 ft NGVD, May 1, 1985.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			JUN		
20...	1415	59.08	01...	1303	54.94
DEC			JUL		
21...	1105	60.36	12...	1920	56.09
APR			AUG		
13...	1435	56.90	08...	1542	56.12
MAY			SEP		
15...	1400	55.00	11...	1332	57.05
18...	0931	54.63	14...	1333	56.34

WELL NUMBER.--281120082245501. ROMP 80 Shallow Well near Lutz, FL.

LOCATION.--Lat 28°11'20", long 82°24'55", in SE¼SW¼ sec.28, T.26 S., R.19 E., Hydrologic Unit 03100205, 0.2 mi north of State Highway 54, and 4.0 mi northeast of Lutz. Owner: Southwest Florida Water Management District.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 111 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 18.5 ft, cased to 8.5 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 80.55 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.60 ft above land-surface datum.

PERIOD OF RECORD.--August 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 75.37 ft NGVD, Oct. 11, 1979; lowest, 67.45 ft NGVD, June 15, 16, 1977.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	70.87	70.08	71.09	70.40	70.76	70.12	69.79	69.47	69.23	69.95	70.23	69.67
10	70.63	69.92	70.88	70.33	70.56	70.04	69.70	69.41	69.20	69.91	70.21	69.77
15	70.46	69.82	70.76	70.25	70.39	69.98	69.67	69.35	69.14	69.90	70.09	69.72
20	70.32	69.74	70.64	70.25	70.26	69.92	69.61	69.29	69.28	69.79	69.93	69.82
25	70.19	71.42	70.56	70.76	70.18	69.87	69.55	69.23	69.61	69.98	69.85	69.93
EOM	70.06	71.33	70.47	70.89	70.15	69.82	69.51	69.21	69.93	70.19	69.68	70.08
MAX	70.95	71.43	71.29	70.89	70.88	70.22	69.80	69.57	69.93	70.19	70.23	70.08

CAL YR 1988 MAX 72.20
WTR YR 1989 MAX 71.43

PASCO COUNTY

WELL NUMBER.--281124082353001. Swains Well at Odessa, FL.

LOCATION.--Lat 28°11'24", long 82°35'30", in SW¼SE¼ sec.27, T.26 S., R.17 E., Hydrologic Unit 03100207, 0.3 mi south of Odessa, and 7.7 mi west of Land O'Lakes. Owner: Mr. Swain.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused irrigation, artesian well, diameter 6 in., depth 316 ft, cased to 65 ft.

INSTRUMENTATION.--Monthly measurement with steel tape.

DATUM.--Land-surface datum is 50.69 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of plywood cover, 3.70 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells. Extremes may have been exceeded during periods of missing record.

PERIOD OF RECORD.--August 1963 to November 1967, incomplete; July 1969 to September 1981, incomplete; October 1981 to current year (monthly), incomplete. Records of water levels prior to January 1974 are available in files of the Geological Survey.

REVISED RECORDS.--WRD FL-76-3: 1975.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 42.08 ft NGVD, Sept. 30, 1979; lowest measured, 30.90 ft NGVD, June 4, 1985.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			JUN		
20...	1348	36.99	01...	0954	33.40
DEC			JUL		
21...	1400	38.48	12...	1245	35.25
APR			AUG		
13...	1410	35.44	08...	1522	35.17
MAY			SEP		
17...	1310	33.53	13...	1217	35.58

PASCO COUNTY

WELL NUMBER.--281143082304702. State Highway 54 Deep Well near Land O'Lakes, FL.

LOCATION.--Lat 28°11'43", long 82°30'47", in SE¼NW¼ sec.28, T.26 S., R.18 E., Hydrologic Unit 03100207, 25 ft north of State Highway 54, and 2.9 mi west of Land O'Lakes. Owner: U.S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 345 ft, cased to 178 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 59.40 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of nipple, 2.50 ft above land-surface datum. Prior to Oct. 1, 1977, top of recorder shelter floor, 2.64 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells. Extremes may have been exceeded during periods of missing record.

PERIOD OF RECORD.--January 1965 to current year, incomplete. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 57.28 ft NGVD, Aug. 31, 1967; lowest, 37.35 ft NGVD, Apr. 25, 1975.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	49.85	48.60	50.56	49.90	49.46	49.95	46.08	46.99	41.24	47.32	46.26	46.11
10	48.46	49.53	50.60	50.27	49.51	48.92	46.44	43.07	41.21	46.31	45.05	46.44
15	49.23	48.04	52.34	48.71	49.68	47.51	46.50	42.07	41.24	44.92	44.99	45.58
20	49.75	48.48	50.79	50.65	49.02	45.94	47.37	40.78	45.05	44.22	45.86	47.99
25	49.15	51.83	50.85	51.05	48.65	49.11	44.02	40.66	46.39	47.67	45.29	49.69
EOM	47.98	52.38	49.35	51.31	47.84	46.94	44.89	45.31	47.58	46.28	45.42	49.63
MAX	50.56	52.46	52.54	51.67	51.41	50.98	48.51	47.27	47.58	47.74	46.53	49.69

CAL YR 1988 MAX 53.24
WTR YR 1989 MAX 52.54

WELL NUMBER.--281143082304703. State Highway 54 Shallow Well near Land O'Lakes, FL.

LOCATION.--Lat 28°11'43", long 82°30'47", in SE¼NW¼ sec.28, T.26 S., R.18 E., Hydrologic Unit 03100207, 30 ft north of State Highway 54, and 2.9 mi west of Land O'Lakes. Owner: U. S. Geological Survey.

AQUIFER.--Nonartesian sand aquifer of the Tertiary System, Geologic Unit 111 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 1.25 in., depth 5 ft, cased to 3 ft.

INSTRUMENTATION.--Monthly measurement with steel tape.

DATUM.--Land-surface datum is 59.54 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.99 ft above land-surface datum.

PERIOD OF RECORD.--November 1965 to December 1973 (bimonthly), incomplete; March 1974 to current year (monthly), incomplete. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 60.12 ft NGVD, Sept. 19, 1988; well observed dry at times some years.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			JUN		
20...	1334	58.62	01...	0928	56.17
DEC			JUL		
21...	1135	59.51	12...	1815	56.45
APR			AUG		
27...	1110	57.75	11...	1034	56.45
MAY			SEP		
15...	1450	56.81	11...	1352	57.43
18...	0941	56.76	13...	1203	57.41

PASCO COUNTY

WELL NUMBER.--281222082393401. Seven Springs Deep Well near Elfers, FL.

LOCATION.--Lat 28°12'22", long 82°39'34", in NE¼SW¼ sec.24, T.26 S., R.16 E., Hydrologic Unit 03100207, 20 ft north of State Highway 54, and 4.1 mi east of Elfers. Owner: U.S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 301 ft, cased to 76 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM (corrected).--Land-surface datum is 35.39 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of flange, 1.42 ft above land-surface datum. Prior to July 27, 1976, top of 6 in. casing, 1.43 ft above land-surface datum; July 27, 1976, to June 7, 1977, top of recorder shelter floor, 1.46 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby irrigation wells.

PERIOD OF RECORD.--July 1965 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 25.43 ft NGVD, Sept. 27, 1979; lowest, 14.51 ft NGVD, June 11, 1985.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	21.58	19.58	21.78	19.91	19.99	19.66	17.24	17.34	15.79	18.01	17.02	16.07
10	20.63	19.22	21.79	19.72	19.71	19.58	18.06	16.47	17.31	17.71	16.96	17.11
15	20.59	18.80	22.30	19.57	18.98	18.46	18.55	16.35	16.58	17.14	17.13	e16.90
20	20.19	18.95	21.59	19.47	18.66	18.11	18.53	15.85	17.39	16.86	16.26	17.25
25	19.42	22.33	20.80	21.24	19.22	18.33	17.55	15.58	17.72	17.81	16.31	17.64
EOM	19.03	22.43	20.00	20.20	18.70	18.74	16.78	16.21	18.17	17.28	16.20	17.38
MAX	21.67	22.43	22.57	21.24	20.27	19.78	18.77	17.70	18.17	18.49	17.31	17.73

CAL YR 1988 MAX 25.00
WTR YR 1989 MAX 22.57

e Estimated

WELL NUMBER.--281222082393403. Seven Springs Shallow Well near Elfers, FL.

LOCATION.--Lat 28°12'22", long 82°39'34", in NE¼SW¼ sec.24, T.26 S., R.16 E., Hydrologic Unit 03100207, 20 ft north of State Highway 54, and 4.1 mi east of Elfers. Owner: U.S. Geological Survey.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 1.25 in., depth 11 ft, cased to 9 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 35.44 ft (corrected) above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.60 ft (corrected) above land-surface datum.

REMARKS.--Prior to November 1972, data collected at adjacent well, diameter 1.25 in., depth 5 ft. Extremes may have been exceeded prior to December 1972.

PERIOD OF RECORD.--July 1968 to current year (bimonthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 34.78 ft NGVD, Jan. 6, 1970; lowest measured, 27.14 ft NGVD, June 4, 1985.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
17...	1433	31.08	18...	1334	29.03
DEC			JUN		
12...	1747	31.99	12...	1400	29.54
FEB			AUG		
14...	1022	30.43	07...	1421	29.59
APR			SEP		
10...	1447	29.63	15...	1122	30.03

PASCO COUNTY

WELL NUMBER.--281424082192701. ROMP 85 Avon Park Well near Zephyrhills, FL.

LOCATION.--Lat 28°14'24", long 82°19'27", in SE¼NE¼ sec.8, T.26 S., R.20 E., Hydrologic Unit 03100205, 30 ft south of State Highway 54, and 9.0 mi west of Zephyrhills. Owner: Southwest Florida Water Management District.

AQUIFER.--Avon Park formation of Eocene Age, Geologic Unit 124 AVPK.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 8 in., depth 505 ft, cased to 450 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 107.94 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.39 ft above land-surface datum.

PERIOD OF RECORD.--February 1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 83.52 ft NGVD, Sept. 30, Oct. 1, 1979; lowest, 70.21 ft NGVD, Jan. 22, 1985.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	80.13	78.78	81.62	80.72	80.80	79.92	78.37	77.55	75.20	78.22	78.03	77.90
10	80.07	78.74	81.30	80.37	80.35	79.82	78.04	76.76	76.03	78.16	77.42	77.83
15	78.97	78.57	81.62	79.96	79.68	78.95	77.51	76.29	75.78	77.69	77.77	77.79
20	78.64	78.32	81.01	80.17	79.58	78.95	77.73	75.55	75.88	77.72	77.00	78.10
25	78.50	80.75	81.18	81.20	78.09	79.09	77.51	75.36	76.72	78.17	76.99	78.52
EOM	78.11	81.65	80.93	81.20	78.56	78.25	76.76	75.72	77.61	78.14	77.13	78.75
MAX	80.52	81.65	81.72	81.33	81.19	80.04	78.53	77.68	77.61	78.49	78.20	78.76

CAL YR 1988 MAX 82.30
WTR YR 1989 MAX 81.72

e Estimated

WELL NUMBER.--281424082192702. ROMP 85 Floridan Well near Zephyrhills, FL.

LOCATION.--Lat 28°14'24", long 82°19'27", in SE¼NE¼ sec.8, T.26 S., R.20 E., Hydrologic Unit 03100205, 40 ft south of State Highway 54, and 9.0 mi west of Zephyrhills. Owner: Southwest Florida Water Management District.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 8 in., depth 300 ft, cased to 160 ft.

INSTRUMENTATION.--Monthly measurement with steel tape.

DATUM.--Land-surface datum is 108.09 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of PVC cap, 3.53 ft above land-surface datum. Prior to Mar. 7, 1984, top of recorder shelter floor, 3.53 ft above land-surface datum.

PERIOD OF RECORD.--February 1979 to September 1983; October 1983 to current year (monthly), incomplete.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 84.22 ft NGVD, Oct. 1, 1979; lowest, 71.61 ft NGVD, May 16, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
04...	0912	81.17	04...	0935	78.29
NOV			16...	1015	76.64
08...	1540	79.44	JUN		
DEC			07...	0835	76.58
12...	0930	82.19	JUL		
JAN			06...	0950	78.92
09...	1325	81.06	AUG		
FEB			07...	1355	78.38
08...	1125	80.84	SEP		
MAR			12...	1130	78.59
03...	0805	80.28			
APR					
04...	1335	78.65			

PASCO COUNTY

WELL NUMBER.--281448082301801. Bexley Well 2 near Drexel, FL.

LOCATION.--Lat 28°14'48", long 82°30'18", in SE¼SE¼ sec.4, T.26 S., R.18 E., Hydrologic Unit 03100207, 2.0 mi west of U. S. Highway 41, and 2.8 mi west of Drexel. Owner: Bud Bexley.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused irrigation, artesian well, diameter 8 in., depth 743 ft, cased to 44 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 67.43 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.12 ft above land-surface datum. Prior to Mar. 6, 1984, top of recorder shelter floor, 3.20 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby irrigation and public supply wells. Extremes may have been exceeded during periods of missing record.

PERIOD OF RECORD.--November 1969 to current year, incomplete. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 64.07 ft NGVD, Sept. 9. 1988; lowest, 55.67 ft NGVD, July 15, 1973.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	62.27	61.59	62.73	61.97	62.20	62.25	60.90	59.95	e58.40	e60.45	59.61	59.88
10	62.02	61.71	62.50	61.81	61.88	61.84	60.68	59.49	e58.90	60.00	59.39	60.15
15	61.81	61.35	62.95	61.75	61.65	61.43	60.83	59.25	e58.70	59.78	59.39	59.75
20	61.60	61.22	62.48	61.77	61.53	61.12	60.92	58.81	e59.15	59.48	59.14	59.92
25	61.35	63.17	62.35	62.98	61.41	61.58	60.26	58.64	e59.75	60.21	59.06	60.61
EOM	61.15	63.07	62.22	62.51	61.39	61.21	59.85	58.61	e60.40	59.89	59.47	60.88
MAX	62.40	63.28	63.02	63.07	62.45	62.26	61.09	59.99	60.40	60.65	59.88	60.88

CAL YR 1988 MAX 64.07
WTR YR 1989 MAX 63.28

e Estimated

WELL NUMBER.--281504082104801. ROMP 86 Deep Well near Zephyrhills, FL.

LOCATION.--Lat 28°15'04", long 82°10'48", in NE¼SW¼ sec.2, T.26 S., R.21 E., Hydrologic Unit 03100205, 15 ft west of 12th Street, 190 ft south of State Highway 54, and 1.3 mi north of Zephyrhills. Owner: Southwest Florida Water Management District.

AQUIFER.--Avon Park formation of Eocene Age, Geologic Unit 124 AVPK.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 8 in., depth 434 ft, cased to 425 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 87.20 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.10 ft above land-surface datum.

PERIOD OF RECORD.--January 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 75.66 ft NGVD, Oct. 20, 21, 22, 23, 24, 25, 1979; lowest, 64.08 ft NGVD, Feb. 15, 16, 17, 18, 19, 1982.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	70.51	70.50	70.40	70.76	70.70	70.45	69.85	69.57	68.86	68.17	67.79	67.45
10	70.65	70.44	70.49	70.77	70.69	70.38	69.89	69.48	68.69	68.11	67.73	67.42
15	70.67	70.36	70.58	70.76	70.66	70.32	69.84	69.37	68.57	68.04	67.69	67.37
20	70.67	70.29	70.65	70.73	70.62	70.22	69.79	69.26	68.45	67.98	67.64	67.33
25	70.65	70.24	70.70	70.71	70.56	70.15	69.73	69.16	68.34	67.92	67.57	67.27
EOM	70.57	70.31	70.75	70.71	70.52	70.04	69.65	69.00	68.25	67.85	67.50	67.23
MAX	70.68	70.56	70.75	70.77	70.71	70.50	70.03	69.64	68.97	68.23	67.84	67.49

CAL YR 1988 MAX 70.75
WTR YR 1989 MAX 70.77

PASCO COUNTY

WELL NUMBER.--281558082264601. Pasco Well 13 near Drexel, FL

LOCATION.--Lat 28°15'58", long 82°26'46", in SE¼NW¼ sec.31, T.25 S., R.19 E., Hydrologic Unit 03100205, 300 ft southeast of State Highway 583, and 1.9 mi northeast of Drexel. Owner: C. C. Cone.

AQUIFER.--Tampa limestone of Miocene Age, Geologic Unit 122 TAMP.

WELL CHARACTERISTICS.--Drilled, unused irrigation, artesian well, diameter 6 in., depth 49 ft, cased to 43 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 80.54 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 2.19 ft above land-surface datum.

REMARKS.--Extremes may have been exceeded during periods of missing record.

PERIOD OF RECORD.--March to September 1934 (semiannually); February 1936 to April 1950 (monthly); June 1951 to current year, incomplete. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 77.24 ft NGVD, Mar. 18, 1960; lowest, 69.70 ft estimated, NGVD, June 9, 1985.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	74.18	72.98	74.29	73.38	73.35	73.02	72.28	71.52	70.70	72.05	71.45	70.96
10	73.80	72.86	74.02	73.21	73.11	72.81	72.11	71.38	70.83	71.80	71.21	70.99
15	73.52	72.67	74.35	73.09	72.89	72.57	72.14	71.28	70.69	71.50	71.15	70.80
20	73.32	72.54	73.95	72.95	72.79	72.43	72.05	71.05	71.06	71.31	71.00	70.80
25	73.09	75.20	73.77	74.00	72.65	72.63	71.85	70.91	71.58	71.72	70.72	70.99
EOM	72.87	74.73	73.56	73.64	72.62	72.46	71.66	70.79	71.86	71.67	70.91	71.11
MAX	74.29	75.29	74.63	74.07	73.57	73.02	72.40	71.67	71.86	72.08	71.63	71.11

CAL YR 1988 MAX 76.99
WTR YR 1989 MAX 75.29

WELL NUMBER.--281622082241301. Cypress Creek Deep Well 3 near Ehren, FL.

LOCATION.--Lat 28°16'22", long 82°24'13", in NE¼NE¼ sec.33, T.25 S., R.19 E., Hydrologic Unit 03100205, 2.7 mi east of Ehren, and 6.6 mi south of Darby. Owner: Pinellas County.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 352 ft, cased to 136 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 64.48 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 1.00 ft above land-surface datum.

PERIOD OF RECORD.--June 1974 to current year. Prior to October 1977, published as Cypress Creek Deep Well 3 near Darby.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 63.68 ft NGVD, Sept. 10, 1974; lowest, 47.31 ft NGVD, June 21, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	56.97	52.86	54.35	54.17	54.71	55.90	53.99	51.92	48.56	49.92	49.13	49.34
10	54.68	52.35	56.42	56.41	54.11	54.86	54.13	51.14	49.89	47.86	49.10	47.66
15	56.84	51.90	56.84	53.59	53.69	54.40	52.82	49.50	49.91	47.46	49.34	47.85
20	53.57	50.80	55.13	53.25	56.13	53.45	53.71	50.10	47.38	47.94	48.34	47.86
25	53.88	55.06	55.13	54.72	53.99	52.94	52.83	49.83	47.61	49.04	49.93	48.19
EOM	51.88	55.34	54.54	54.65	53.41	53.07	52.22	48.58	48.78	48.96	49.20	49.32
MAX	60.31	55.34	58.16	56.41	57.80	56.14	54.26	52.18	50.20	49.92	49.93	49.37

CAL YR 1988 MAX 60.31
WTR YR 1989 MAX 60.31

PASCO COUNTY

WELL NUMBER.--281636082372001. Moon Lake Deep Well near New Port Richey, FL.

LOCATION (corrected).--Lat 28°16'36", long 82°37'20", in NW¼SE¼ sec.29, T.25 S., R.17 E., Hydrologic Unit 03100207, 20 ft west of State Highway 587, and 5.9 mi east of New Port Richey. Owner: U.S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 115 ft, cased to 65 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM (corrected).--Land-surface datum is 38.87 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.30 ft above land-surface datum. Prior to July 8, 1976, top of recorder shelter floor, 3.27 ft above land-surface datum.

PERIOD OF RECORD.--April 1966 to September 1981; October 1981 to May 1983 (monthly), incomplete; May 1983 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 34.18 ft NGVD, Sept. 9, 1988; lowest, 27.51 ft NGVD, June 11, 1985.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	32.60	31.39	32.35	e31.65	31.47	31.35	30.53	29.90	28.91	29.80	29.90	29.17
10	32.31	31.38	32.18	e31.55	31.29	31.18	30.37	29.71	29.35	29.58	29.67	29.58
15	32.08	31.22	e32.35	e31.45	31.17	31.01	30.49	29.53	29.08	29.29	29.55	29.46
20	31.89	31.09	e32.05	e31.40	31.09	30.87	30.33	29.32	28.96	29.40	29.31	29.40
25	31.69	32.92	e31.80	31.90	31.07	30.81	30.17	29.17	29.35	29.87	29.22	29.57
EOM	31.48	32.60	e31.70	31.66	31.02	30.67	30.00	29.12	29.77	30.03	29.14	29.77
MAX	32.73	32.98	32.56	31.96	31.61	31.38	30.62	30.01	29.77	30.03	30.03	29.77

CAL YR 1988 MAX 34.18
WTR YR 1989 MAX 32.98

e Estimated

WELL NUMBER.--281636082372002. Moon Lake Shallow Well near New Port Richey, FL.

LOCATION (corrected).--Lat 28°16'36", long 82°37'20", in NW¼SE¼ sec.29, T.25 S., R.17 E., Hydrologic Unit 03100207, 20 ft west of State Highway 587, and 5.9 mi east of New Port Richey. Owner: U.S. Geological Survey.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 25 ft, cased to 22 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM (corrected).--Land-surface datum is 38.87 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of flange, 2.80 ft above land-surface datum. Prior to July 8, 1976, top of recorder shelter floor, 2.82 ft above land-surface datum.

REMARKS.--Extremes may have been exceeded during periods of missing record.

PERIOD OF RECORD.--April 1966 to current year, incomplete. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 35.70 ft NGVD, Aug. 7, 1974; lowest, 28.57 ft NGVD, Dec. 26, 1981.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	34.67	33.16	34.09	33.33	32.93	32.24	31.81	31.19	30.36	30.66	31.00	30.44
10	34.42	33.00	33.96	33.16	32.80	32.27	31.70	31.07	30.34	30.75	31.02	30.42
15	34.17	32.85	33.89	33.00	32.65	32.22	31.58	30.94	30.35	30.71	30.95	30.51
20	33.91	32.69	33.77	32.84	32.50	32.14	31.49	30.80	30.27	30.60	30.83	30.52
25	33.66	33.95	33.65	33.00	32.36	32.04	31.40	30.66	30.20	30.63	30.69	30.48
EOM	33.38	34.16	33.48	33.03	32.27	31.92	31.30	30.49	30.34	30.86	30.54	30.56
MAX	34.87	34.16	34.16	33.45	33.02	32.27	31.90	31.28	30.46	30.86	31.03	30.56

CAL YR 1988 MAX 35.47
WTR YR 1989 MAX 34.87

PASCO COUNTY

WELL NUMBER.--281715082164401. State Highway 577 Well near San Antonio, FL.

LOCATION.--Lat 28°17'15", long 82°16'44", in NE¼NW¼ sec.26., T.25 S., R.20 E., Hydrologic Unit 03100205, 21 ft west of State Highway 577, and 3.1 mi south of San Antonio. Owner: U. S. Geological Survey.

AQUIFER --Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 150 ft, cased to 57 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 130.01 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 2.75 ft above land-surface datum.

REMARKS.--Extremes may have been exceeded during periods of missing record.

PERIOD OF RECORD.--August 1964 to current year, incomplete. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 97.01 ft NGVD, Sept. 20, 1964; lowest, 79.60 ft NGVD, May 20, 1981.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	93.59	90.50	94.40	94.04	93.75	91.40	90.41	88.75	85.00	87.59	87.67	87.84
10	93.18	90.65	94.59	93.59	93.09	91.48	90.55	88.30	85.96	88.00	87.36	87.86
15	92.48	90.64	94.91	93.08	92.73	91.50	89.81	88.10	85.88	87.90	87.43	87.04
20	91.92	90.42	94.76	92.89	92.49	91.26	89.82	86.93	86.08	87.82	87.08	87.13
25	91.33	92.47	94.83	93.58	89.57	90.99	89.29	86.26	86.44	88.09	86.79	87.19
EOM	90.73	93.86	94.45	93.93	90.14	90.65	88.69	85.44	86.91	88.27	87.50	87.26
MAX	93.67	93.86	95.00	94.39	93.93	91.75	90.75	88.88	86.91	88.27	88.08	87.88

CAL YR 1988 MAX 95.00
WTR YR 1989 MAX 95.00

WELL NUMBER.--281715082164402. State Highway 577 Shallow Well near San Antonio, FL.

LOCATION.--Lat 28°17'15", long 82°16'44", in NE¼NW¼ sec.26, T.25 S., R.20 E., Hydrologic Unit 03100205, 21 ft west of State Highway 577, and 3.1 mi south of San Antonio. Owner: U.S. Geological Survey.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 SAND.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 20.7 ft, cased to 17.7 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 129.78 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of nipple, 3.00 ft above land-surface datum.

PERIOD OF RECORD.--January 1970 to current year (bimonthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 126.39 ft NGVD, Sept. 5, 1979; lowest measured, 113.99 ft NGVD, July 5, 1977.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
04...	0840	123.24	04...	1000	120.26
NOV			16...	0958	119.82
08...	1515	122.13	JUL		
JAN			06...	1015	118.56
09...	1350	123.24	SEP		
MAR			12...	1057	116.59
03...	0742	122.20			

PASCO COUNTY

WELL NUMBER.--281917082420901. ROMP TR 17-1 Deep Well at Bayonet Point, FL.

LOCATION.--Lat 28°19'17", long 82°42'09", in NE¼SE¼ sec.9, T.25, R.16 E., Hydrologic Unit 03100207, 0.2 mi west of U. S. Highway 19, and 0.7 mi southwest of Bayonet Point. Owner: Southwest Florida Water Management District.

AQUIFER.--Suwannee limestone of Oligocene Age, Geologic Unit 123 SWNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 139 ft, cased to 131 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 10.91 ft (corrected) above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.27 ft (corrected) above land-surface datum.

REMARKS.--Water level affected by tidal fluctuations. Well also sampled for water quality.

PERIOD OF RECORD.--June 1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 7.21 ft NGVD, Aug. 31, 1985; lowest, 3.34 ft NGVD, June 11, 1985.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	4.77	5.06	4.59	4.51	4.41	4.52	4.19	4.40	4.19	4.88	4.30	4.25
10	4.70	4.40	4.36	4.46	3.85	4.02	4.09	4.20	3.94	4.33	4.19	4.39
15	4.56	4.22	4.45	4.21	4.01	4.27	4.05	3.61	4.13	4.47	4.70	4.68
20	4.67	4.50	4.66	4.14	4.09	4.02	4.05	3.82	4.55	4.75	4.32	4.28
25	4.88	5.12	4.60	4.25	3.72	4.07	3.39	3.73	4.31	4.44	4.35	4.35
EOM	4.31	4.79	4.34	4.35	4.18	4.17	3.94	3.77	5.02	4.66	4.53	4.96
MAX	5.13	5.65	5.03	4.61	4.58	4.53	4.31	4.44	5.02	5.02	4.70	4.96

CAL YR 1988 MAX 6.93
WTR YR 1989 MAX 5.65

WELL NUMBER.--281918082264601. State Highway 52 Well near Gowers Corner, FL.

LOCATION.--Lat 28°19'18", long 82°26'46", in NE¼SW¼ sec.7, T.25 S., R.19 E., Hydrologic Unit 03100207, 30 ft north of State Highway 52, and 3.3 mi east of Gowers Corner. Owner: U. S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 73 ft, cased to 38 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 79.50 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 2.43 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells. Extremes may have been exceeded during periods of missing record.

PERIOD OF RECORD.--May 1965 to current year, incomplete. Records of water levels prior to January 1974 are available in files of the Geological Survey. Prior to October 1978, published as State Highway 52 Well east of Gowers Corner.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 77.93 ft NGVD, Dec. 10, 1969; lowest, 69.71 ft NGVD, June 18, 1981.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	75.77	75.08	75.75	75.31	75.45	75.41	74.27	73.10	71.77	73.05	71.72	71.92
10	75.44	74.68	75.57	75.15	75.19	74.98	73.96	72.85	72.23	72.53	71.62	72.02
15	75.21	74.40	76.07	75.04	75.02	74.71	74.30	72.66	71.79	72.25	71.47	71.61
20	75.02	74.26	75.79	75.15	74.90	74.50	73.89	72.38	72.15	71.99	71.31	71.45
25	74.99	76.37	75.64	76.06	74.82	74.33	73.57	72.08	73.08	72.45	71.74	71.80
EOM	74.68	76.00	75.45	75.67	74.75	74.49	73.32	71.85	73.44	71.91	72.08	71.77
MAX	75.95	76.59	76.49	76.56	75.57	75.72	74.40	73.29	73.44	73.43	72.25	72.03

CAL YR 1988 MAX 77.41
WTR YR 1989 MAX 76.59

PASCO COUNTY

WELL NUMBER.--281918082264602. State Highway 52 Shallow Well near Gowers Corner, FL.

LOCATION.--Lat 28°19'18", long 82°26'46", in NE¼SW¼ sec.7, T.25 S., R.19 E., Hydrologic Unit 03100207, 30 ft north of State Highway 52, and 3.3 mi east of Gowers Corner. Owner: U.S. Geological Survey.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 1.25 in., depth 6.7 ft, cased to 5.7 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 79.50 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.43 ft above land-surface datum.

PERIOD OF RECORD.--May 1978 to current year (bimonthly). Prior to October 1978, published as State Highway 52 Shallow Well east of Gowers Corner.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 77.69 ft NGVD, May 18, 1987; well observed dry at times some years.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
NOV			MAY		
08...	1420	75.06	03...	1442	73.77
JAN			16...	0912	--
12...	1030	75.43	JUL		
MAR			06...	1120	73.69
01...	1105	75.06	SEP		
			11...	1445	--

NOTE.--Well observed dry on those dates indicated by dashes.

WELL NUMBER.--281922082403901. ROMP TR 17-3 Deep Well near Bayonet Point, FL.

LOCATION.--Lat 28°19'22", long 82°40'39", in NE¼SW¼ sec.11, T.25 S., R.16 E., Hydrologic Unit 03100207, 0.6 mi south of State Highway 52, and 1.5 mi east of Bayonet Point. Owner: Southwest Florida Water Management District.

AQUIFER.--Suwannee limestone of Oligocene Age, Geologic Unit 123 SWNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 200 ft, cased to 185 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM (corrected).--Land-surface datum is 29.68 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.95 ft above land-surface datum. Prior to June 3, 1980, top of casing, 3.49 ft above land-surface datum.

REMARKS.--Water level affected by tidal fluctuations. Well also sampled for water quality.

PERIOD OF RECORD.--June 1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 10.56 ft NGVD, Sept. 10, 1988; lowest, 1.77 ft NGVD, Dec. 23, 1983.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	3.53	4.28	3.36	3.30	3.11	3.43	3.17	3.38	3.37	3.40	3.13	3.28
10	3.39	3.30	3.71	3.26	2.49	2.49	2.98	3.27	3.16	3.14	3.19	3.20
15	3.19	3.09	3.29	3.18	2.95	3.32	3.12	2.85	3.17	3.34	3.56	3.39
20	3.67	3.64	3.55	2.98	3.04	2.92	3.04	2.88	3.45	3.59	3.10	3.01
25	3.94	5.04	3.36	2.89	2.34	2.88	2.95	2.90	3.29	3.23	3.32	3.55
EOM	3.29	3.73	3.31	3.20	3.26	3.29	3.11	2.98	3.79	3.38	3.39	3.46
MAX	4.06	5.34	3.78	3.42	3.48	3.55	3.29	3.58	3.79	3.59	3.56	3.64

CAL YR 1988 MAX 10.56
WTR YR 1989 MAX 5.34

PASCO COUNTY

WELL NUMBER.--281923082252201. ROMP 93 Deep Well near Gowers Corner, FL.

LOCATION.--Lat 28°19'23", long 82°25'22", in NE¼SE¼ sec.8, T.25 S., R.19 E., Hydrologic Unit 03100205, 50 ft north of State Highway 52, and 5.0 mi east of Gowers Corner. Owner: Southwest Florida Water Management District.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused, observation well, diameter 6 in., depth 700 ft, cased to 149 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 76.76 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 1.34 ft above land-surface datum. Prior to Jan. 3, 1983, top of flange, 1.28 ft above land-surface datum.

PERIOD OF RECORD.--May 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 76.60 ft NGVD, Sept. 26, 1982; lowest, 67.61 ft NGVD, June 19, 1981.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	74.49	73.50	74.55	74.10	74.31	74.06	72.88	71.38	69.78	71.40	69.92	70.15
10	74.00	73.09	74.36	73.92	74.00	73.61	72.48	71.06	70.08	70.91	69.85	70.27
15	73.79	72.80	74.88	73.82	73.80	73.32	72.73	70.90	69.77	70.52	69.77	69.93
20	73.56	72.62	74.69	73.36	73.67	73.11	72.33	70.47	70.33	70.31	69.35	69.72
25	73.46	75.07	74.46	74.39	73.54	73.54	71.98	70.16	71.28	70.30	69.39	69.97
EOM	73.11	74.82	74.27	74.51	73.48	73.09	71.62	70.01	71.65	70.24	70.35	69.89
MAX	74.85	75.11	75.19	75.23	74.45	74.37	72.99	71.63	71.65	71.66	70.49	70.31

CAL YR 1988 MAX 76.04
WTR YR 1989 MAX 75.23

WELL NUMBER.--281923082252202. ROMP 93 Shallow Well near Gowers Corner, FL.

LOCATION.--Lat 28°19'23", long 82°25'22", in NE¼SE¼ sec.8, T.25 S., R.19 E., Hydrologic Unit 03100205, 50 ft north of State Highway 52, and 5.0 mi east of Gowers Corner. Owner: Southwest Florida Water Management District.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 12 ft, cased to 6.2 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 76.79 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 1.78 ft above land-surface datum. Prior to Jan. 3, 1983, top of flange, 1.72 ft above land-surface datum.

PERIOD OF RECORD.--May 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 76.78 ft NGVD, Mar. 26, 1987; lowest, 70.47 ft NGVD, June 1, 1981.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	74.33	73.88	74.79	74.20	74.69	75.30	73.57	72.30	71.21	73.63	72.33	72.89
10	73.86	73.39	74.57	74.04	74.22	74.36	73.14	72.09	71.77	72.98	72.28	73.66
15	73.61	73.04	75.86	73.89	73.94	73.90	73.80	71.91	71.49	72.57	72.58	72.81
20	73.39	72.82	75.36	74.48	73.74	73.53	73.22	71.72	72.39	72.29	73.02	72.68
25	73.41	76.00	74.87	75.96	73.89	74.50	72.79	71.55	73.84	73.63	73.14	73.35
EOM	73.00	75.52	74.49	75.36	73.70	73.96	72.51	71.36	74.71	72.69	73.27	72.83
MAX	74.86	76.75	76.67	76.70	75.18	76.10	73.80	72.46	74.71	74.63	74.00	73.66

CAL YR 1988 MAX 76.77
WTR YR 1989 MAX 76.75

PASCO COUNTY

WELL NUMBER.--281926082212901. Junction of State Highways 52 and 581 Well near Darby, FL.

LOCATION.--Lat 28°19'26", long 82°21'29", in NE¼SE¼ sec.12, T.25 S., R.19 E., Hydrologic Unit 03100205, 45 ft south of State Highway 52, 800 ft east of State Highway 581, and 2.6 mi south of Darby. Owner: U. S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 113 ft, cased to 83 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 89.47 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 2.42 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells. Extremes may have been exceeded during periods of missing record.

PERIOD OF RECORD.--April 1966 to current year, incomplete. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 79.44 ft NGVD, Sept. 30, 1966; lowest, 65.20 ft NGVD, June 23, 24, 25, 26, 1981.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	74.72	72.10	75.07	74.65	74.75	73.74	72.56	70.19	68.06	69.58	68.73	69.35
10	73.57	71.94	74.88	74.42	74.34	73.48	71.99	69.77	68.03	69.57	68.52	69.55
15	73.35	71.68	75.49	74.18	74.02	73.25	71.68	69.66	68.08	69.43	68.42	69.52
20	73.06	71.58	75.41	73.99	73.98	72.97	71.55	69.15	67.97	69.46	68.39	69.33
25	72.77	74.64	75.08	75.21	73.68	73.16	71.07	68.68	68.76	69.23	68.58	69.25
EOM	72.13	75.24	74.78	75.06	e73.64	73.05	70.59	68.37	69.36	69.10	69.10	69.38
MAX	75.12	75.24	75.53	75.27	75.08	73.76	72.92	70.52	69.36	69.68	69.10	69.60

CAL YR 1988 MAX 75.55
WTR YR 1989 MAX 75.53

e Estimated

WELL NUMBER.--281926082212903. Junction of State Highways 52 and 581 Shallow Well near Darby, FL.

LOCATION.--Lat 28°19'26", long 82°21'29", in NE¼SE¼ sec.12, T.25 S., R.19 E., Hydrologic Unit 03100205, 45 ft south of State Highway 52, 800 ft east of State Highway 581, and 2.6 mi south of Darby. Owner: U.S. Geological Survey

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 SAND.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 1.25 in., depth 6 ft, cased to 4 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 89.75 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.50 ft above land-surface datum.

PERIOD OF RECORD.--October 1965 to current year (bimonthly), incomplete. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 88.92 ft NGVD, July 3, 1974; well observed dry at times some years.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
NOV			MAY		
08...	1440	84.48	03...	1405	--
JAN			16...	0930	--
11...	0825	86.41	JUL		
MAR			06...	1100	84.88
01...	0825	84.82	SEP		
			11...	1510	84.49

NOTE.--Well observed dry on those dates indicated by dashes.

PASCO COUNTY

WELL NUMBER.--281949082332001. State Highway 52 Deep Well near Fivay Junction, FL.

LOCATION.--Lat 28°19'49", long 82°33'20", in NW¼NE¼ sec.12, T.25 S., R.17 E., Hydrologic Unit 03100207, 20 ft south of State Highway 52, and 2.3 mi west of Fivay Junction. Owner: U. S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 73 ft, cased to 60 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 55.89 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.64 ft above land-surface datum.

PERIOD OF RECORD.--April 1966 to current year, incomplete. Record of water levels prior to January 1974 are available in files of the Geological Survey. Prior to October 1978, published as State Highway 52 Deep Well near Gowers Corner.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 56.75 ft NGVD, Sept. 8, 1988; lowest, 49.91 ft NGVD, June 12, 1985.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	54.21	53.26	54.07	53.44	53.36	53.29	52.57	52.08	50.94	52.68	52.69	52.35
10	53.85	53.09	53.87	53.32	53.21	53.08	52.44	51.90	51.39	52.31	52.33	52.29
15	53.64	52.97	54.19	53.22	53.07	52.90	52.71	51.75	51.10	52.05	52.23	52.07
20	53.45	52.88	53.89	53.13	53.00	52.79	52.62	51.56	51.60	51.94	52.02	52.00
25	53.34	54.83	53.73	53.85	52.92	52.84	52.37	51.38	52.31	52.31	52.46	52.17
EOM	53.14	54.39	53.56	53.54	52.88	52.69	52.25	51.14	52.78	52.69	52.56	52.30
MAX	54.34	55.19	54.44	53.98	53.50	53.32	52.75	52.21	52.78	52.84	52.87	52.49

CAL YR 1988 MAX 56.75
WTR YR 1989 MAX 55.19

WELL NUMBER.--281949082332002. State Highway 52 Shallow Well near Fivay Junction, FL.

LOCATION.--Lat 28°19'49", long 82°33'20", in NW¼NE¼ sec.12, T.25 S., R.17 E., Hydrologic Unit 03100207, 20 ft south of State Highway 52, and 2.3 mi west of Fivay Junction. Owner: U.S. Geological Survey.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 SAND.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 23.5 ft, cased to 20.5 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 56.68 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of cap, 3.00 ft above land-surface datum.

PERIOD OF RECORD.--July 1965 to current year (bimonthly), incomplete. Records of water levels prior to January 1974 are available in files of the Geological Survey. Prior to October 1978, published as State Highway 52 Shallow Well near Gowers Corner.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 55.46 ft NGVD, Mar. 11, 1970; lowest measured, 49.80 ft NGVD, June 1, 1977.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
12...	0823	53.78	08...	1001	51.93
JAN			17...	0948	51.73
12...	1230	53.05	JUL		
MAR			14...	0955	52.10
06...	0957	53.06	SEP		
			29...	1505	52.13

PASCO COUNTY

WELL NUMBER.--282009082373801. State Highway 52 Deep Well near Hudson, FL.

LOCATION.--Lat 28°20'09", long 82°37'38", in NE¼SW¼ sec.5, T.25 S., R.17 E., Hydrologic Unit 03100207, 1.6 mi west of junction State Highways 52 and 587, and 5.0 mi southeast of Hudson. Owner: U.S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 73 ft, cased to 59 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Altitude of land-surface datum is 33 ft, from topographic map. Measuring point: Top of casing, 1.46 ft above land-surface datum. Prior to Aug. 1, 1983, top of casing, 2.6 ft above land-surface datum.

REMARKS.--Well also sampled for water quality.

PERIOD OF RECORD.--January 1965 to current year (bimonthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 30.06 ft NGVD, Mar. 10, 1970; lowest measured, 22.18 ft NGVD, May 22, 1974.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
18...	1531	28.10	16...	0906	25.26
DEC			JUN		
22...	0951	28.05	13...	1240	25.37
FEB			AUG		
14...	1524	27.18	08...	1350	24.90
APR			SEP		
17...	0911	26.18	12...	0911	25.19

PASCO COUNTY

WELL NUMBER.--282540082275701. Masaryktown Deep Well at Masaryktown, FL.

LOCATION.--Lat 28°25'40", long 82°27'57", in SW¼NW¼ sec.1, T.24 S., R.18 E., Hydrologic Unit 03100207, 80 ft west of U. S. Highway 41 at Masaryktown. Owner: U.S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 82 ft, cased to 29 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 65.71 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 2.93 ft above land-surface datum. Prior to Jan. 22, 1976, top of casing, 2.80 ft above land-surface datum; Jan. 22, 1976, to June 19, 1986, top of recorder shelter floor, 2.90 ft above land-surface datum.

REMARKS.--Extremes may have been exceeded during periods of missing record.

PERIOD OF RECORD.--May 1965 to current year, incomplete. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 50.32 ft NGVD, Sept. 9, 1984; lowest, 27.79 ft NGVD, Aug. 27, 1981.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	43.89	42.07	40.79	40.36	39.57	38.64	37.08	35.63	34.31	33.70	33.16	32.73
10	44.13	41.62	40.76	40.24	39.24	38.39	36.85	e35.40	34.27	33.57	33.02	32.69
15	44.14	41.36	40.68	40.17	39.13	38.21	36.61	35.12	34.11	33.47	32.94	32.65
20	44.08	41.10	40.60	40.06	38.98	37.98	36.35	34.95	33.94	33.46	32.88	32.61
25	43.22	40.90	40.57	39.87	38.73	37.70	36.09	34.76	33.89	33.26	32.82	32.58
EOM	42.33	40.83	40.48	39.75	38.74	37.37	35.86	34.53	33.71	33.18	32.74	32.54
MAX	44.16	42.30	40.82	40.46	39.71	38.75	37.34	35.86	34.53	33.71	33.18	32.73

CAL YR 1988 MAX 44.16
WTR YR 1989 MAX 44.16

e Estimated

WELL NUMBER.--282540082275702. Masaryktown Shallow Well at Masaryktown, FL.

LOCATION.--Lat 28°25'40", long 82°27'57", in SW¼NW¼ sec.1, T.24 S., R.18 E., Hydrologic Unit 03100207, 80 ft west of U. S. Highway 41 at Masaryktown. Owner: U.S. Geological Survey.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 SAND.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 1.25 in.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 65.78 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.25 ft above land-surface datum.

REMARKS.--Well is apparently experiencing some cave-in. Soundings at different times indicate varying depths.

PERIOD OF RECORD.--October 1965 to current year (bimonthly), incomplete. Records of water levels prior to October 1977 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 61.50 ft NGVD, Sept. 14, 1982; well observed dry at times most years.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			JUL		
12...	1057	49.65	13...	1005	--
FEB			SEP		
28...	1215	--	14...	0920	--
MAY					
03...	0940	--			

NOTE.--Well observed dry on those dates indicated by dashes.

STATION NUMBER	STATION NAME	LAT-I-TUDE	LONG-I-TUDE	DATE	ELEV-ATION ABOVE NGVD (FEET)
	PASCO COUNTY				
281023082305701	ST PETE #41 DEEP NR LAND O' LAKES, FLA	28 10 23 N	082 30 57 W	09-11-89	43.21
281023082305702	ST PETE SH WELL 41	28 10 23 N	082 30 57 W	05-15-89	55.03
				09-11-89	58.35
281023082450701	COASTAL PASCO D. WELL 13 NR NEW PORT RICHEY,FL	28 10 23 N	082 45 07 W	05-17-89	2.16
				09-12-89	3.25
281025082312401	SIERRA PINES D. WELL 218 NR LUTZ	28 10 25 N	082 31 24 W	05-15-89	37.08
				09-11-89	43.66
281035082305702	ST PETE SH 42	28 10 35 N	082 30 57 W	05-15-89	54.68
				09-11-89	57.11
281041082304101	PASCO WF D. WELL E. OF 43 NR LAND O' LAKES	28 10 41 N	082 30 41 W	05-15-89	36.39
				09-11-89	41.57
281042082304602	ST PETE SH WELL 43	28 10 42 N	082 30 46 W	05-15-89	55.17
				09-11-89	57.12
281046082303101	WELL 8102304631	28 10 46 N	082 30 31 W	05-15-89	38.95
281046082303102	ST PETE SH WELL 44	28 10 46 N	082 30 31 W	05-15-89	55.79
				09-11-89	57.34
281046082470801	FPC WELL NO 1 NR TARPON SGS, FLA	28 10 46 N	082 47 08 W	05-17-89	1.10
				09-12-89	1.68
281050082305901	26S18E33 ST PETE 96	28 10 50 N	082 30 59 W	05-15-89	36.68
				09-11-89	42.60
281050082305902	ST PETE SH WELL 26	28 10 50 N	082 30 59 W	05-15-89	54.91
				09-11-89	57.35
281055082302402	ST PETE SH 45	28 10 55 N	082 30 24 W	05-15-89	55.90
				09-11-89	57.84
281056082303301	PASCO WELLFIELD CDESSA # 233 DEEP	28 10 56 N	082 30 33 W	05-15-89	48 94
				09-11-89	51.95
281056082303302	PASCO WF S. WELL 233 NR LAND O' LAKES	28 10 56 N	082 30 33 W	05-15-89	54.69
				09-11-89	56.71
281103082322601	DOYLES RANCH DP	28 11 03 N	082 32 26 W	05-15-89	39.63
				09-11-89	44.09
281104082310401	PASCO WF D. WELL P-4 NR LAND O'LAKES	28 11 04 N	082 31 04 W	05-15-89	37.83
				09-11-89	42.81
281104082310501	WELL 8112310405	28 11 04 N	082 31 05 W	09-11-89	42.58
281104082310502	ST PETE SH WELL 47	28 11 04 N	082 31 05 W	05-15-89	54.21
				09-11-89	54.65
281104082312001	WELL 8112310420	28 11 04 N	082 31 20 W	05-15-89	38.52
281104082312002	ST PETE SH WELL 48	28 11 04 N	082 31 20 W	05-15-89	55.91
				09-11-89	57.02
281106082312201	230S	28 11 06 N	082 31 22 W	05-15-89	56.13
				09-11-89	57.65
281109082314401	BOONE D. WELL 221 NR LUTZ	28 11 09 N	082 31 44 W	05-15-89	40.27
				09-11-89	44.18
281112082211301	IMMER DP NR PEBLE CR	28 11 12 N	082 21 13 W	05-16-89	52.75
				09-12-89	55.96
281118082305901	PASCO WF PROD WELL 49 NR LAND O' LAKES	28 11 18 N	082 30 59 W	05-15-89	37.44
281118082305902	ST PETE SH WELL 49	28 11 18 N	082 30 59 W	05-15-89	54.96
				09-11-89	55.66
281120082302701	PASCO WF D. WELL 220 NR LUTZ	28 11 20 N	082 30 27 W	05-15-89	46.49
				09-11-89	49.37
281120082302702	PASCO SHALLOW WELL 220 NEAR LAND O. LAKES,FL.	28 11 20 N	082 30 27 W	05-15-89	51.90
				09-11-89	53.25
281124082274101	WINTER QUARTERS RV PK WELL	28 11 24 N	082 27 41 W	05-15-89	58.84
				09-11-89	60.31

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1988 TO SEPTEMBER 1989

STATION NUMBER	STATION NAME	LAT-I-TUDE	LONG-I-TUDE	DATE	ELEV-ATION ABOVE NGVD (FEET)
	PASCO COUNTY				
281126082303801	WELL 8112302638	28 11 26 N	082 30 38 W	05-15-89	41.65
				09-11-89	44.78
281126082303802	ST PETE SH WELL 50	28 11 26 N	082 30 38 W	05-15-89	55.04
				09-11-89	57.05
281137082352801	USGS S. WELL 302 AT ODESSA	28 11 37 N	082 35 28 W	09-11-89	47.25
281139082315301	SR 54 S. WELL 215 NR LUTZ	28 11 39 N	082 31 53 W	05-15-89	53.00
				09-11-89	55.33
281155082235401	KING DP NR LUTZ	28 11 55 N	082 23 54 W	05-16-89	53.36
281157082304101	PASCO WF S. WELL 227 NR LAND O' LAKES	28 11 57 N	082 30 41 W	05-15-89	57.47
				09-11-89	57.99
281222082384301	STARKEY STOCK D. WELL 700 NR ODESSA	28 12 22 N	082 38 43 W	09-11-89	19.61
281222082384302	STARKEY S. WELL 700 NR ODESSA	28 12 22 N	082 38 43 W	05-15-89	26.17
				09-11-89	23.84
281222082393402	7 SGS SR54 S. WELL NR ELFERS, FLA	28 12 22 N	082 39 34 W	05-18-89	29.03
				09-15-89	30.03
281244082320301	USGS D. WELL 744 NR ODESSA	28 12 44 N	082 32 03 W	05-17-89	46.74
				09-12-89	49.91
281244082320302	USGS S. WELL 744 NR ODESSA	28 12 44 N	082 33 03 W	05-17-89	45.94
				09-12-89	48.39
281254082291201	BEXLEY S. WELL 224 NR LAND O'LAKES	28 12 54 N	082 29 12 W	05-16-89	62.91
				09-11-89	63.47
281309082311302	BEXLEY S. WELL 743 NR LAND O' LAKES	28 13 09 N	082 31 13 W	05-17-89	53.32
				09-12-89	53.86
281314082380601	STARKEY PICNIC AREA D. WELL 745 NR ODESSA	28 13 14 N	082 38 06 W	05-15-89	20.88
				09-11-89	21.11
281321082294201	BEXLEY D. WELL 225 NR LAND O' LAKES	28 13 21 N	082 29 42 W	05-17-89	58.19
				09-12-89	59.28
281427082382801	STARKEY DP 728	28 14 27 N	082 38 28 W	05-15-89	26.33
				95115-89	25.38
281427082382802	STARKEY SH 728	28 14 27 N	082 38 28 W	05-15-89	26.79
				09-11-89	25.27
281431082371801	STARKEY DP 730	28 14 31 N	082 37 18 W	05-15-89	25.26
				09-11-89	25.21
281432082211401	USGS S. WELL 853 ON I-75 NR DREXEL	28 14 32 N	082 21 14 W	05-15-89	73.56
				09-12-89	73.30
281434082260801	COVINGTON 2 D. WELL 858 NR DREXEL	28 14 34 N	082 26 08 W	05-15-89	63.14
				09-12-89	63.16
281435082221301	ANGUS VALLEY 3 D. WELL 860 NR DREXEL	28 14 35 N	082 22 13 W	05-15-89	59.76
				09-12-89	61.70
281436082380101	STARKEY WF EMW4	28 14 36 N	082 38 01 W	05-15-89	31.13
				09-11-89	29.70
281437082271401	NININGER D. WELL 857 AT DREXEL	28 14 37 N	082 27 14 W	05-15-89	70.63
				09-12-89	70.55
281441082380301	STARKEY DP 705	28 14 41 N	082 38 03 W	05-15-89	25.44
				09-11-89	25.01
281446082354101	STARKEY WELL MW-1 NR NEW PORT RICHEY FL	28 14 46 N	082 35 41 W	05-15-89	22.11
				09-11-89	24.79
281446082354302	STARKEY SM2-SH NR NEW PORT RICHEY FL	28 14 46 N	082 35 43 W	05-15-89	42.91
				09-11-89	43.33
281447082371002	STARKEY S. WELL 731 NR NEW PORT RICHEY, FLA	28 14 47 N	082 37 10 W	05-15-89	30.81
				09-11-89	28.95
281448082301802	BEXLEY 2 S. WELL 708 NR DREXEL	28 14 48 N	082 30 18 W	05-17-89	63.28
				09-12-89	63.84

STATION NUMBER	STATION NAME	LAT-I-TUDE	LONG-I-TUDE	DATE	ELEV-ATION ABOVE NGVD (FEET)
	PASCO COUNTY				
281451082380701	STARKEY DP 10	28 14 51 N	082 38 07 W	05-15-89	25.77
				09-11-89	25.21
281451082380702	STARKEY SH 20	28 14 51 N	082 38 07 W	05-15-89	23.97
				09-11-89	25.05
281453082380301	STARKEY DP 707	28 14 53 N	082 38 03 W	05-15-89	25.86
				09-11-89	25.06
281453082380302	STARKEY SH 707	28 14 53 N	082 38 03 W	05-15-89	27.64
				09-11-89	25.44
281500082384501	STARKEY DP WELL 710	28 15 00 N	082 38 45 W	05-15-89	22.33
				09-11-89	21.75
281500082384502	STARKEY SH WELL 710	28 15 00 N	082 38 45 W	05-15-89	24.17
				09-11-89	28.87
281501082380901	STARKEY EMW-3 NEAR NEW PORT RICHEY FL	28 15 01 N	082 38 09 W	05-15-89	25.54
				09-11-89	24.87
281509082385401	STARKEY W2S WT.	28 15 09 N	082 38 54 W	05-15-89	19.28
				09-11-89	18.82
281512082384501	STARKEY W2 PROD.	28 15 12 N	082 38 45 W	05-15-89	18.57
				09-11-89	18.31
281516082361201	STARKEY EMW-6 NR NEW PORT RICHEY FL	28 15 16 N	082 36 12 W	09-11-89	26.55
281520082314502	BEXLEY S. WELL 734 NR DREXEL	28 15 20 N	082 31 45 W	05-17-89	55.75
				09-12-89	56.35
281521082380601	STARKEY WF EMW5	28 15 21 N	082 38 06 W	05-15-89	27.24
				09-11-89	27.78
281524082380601	STARKEY 4A FO	28 15 24 N	082 38 06 W	05-15-89	21.61
				09-11-89	22.99
281525082381101	STARKEY W4 PROD	28 15 25 N	082 38 11 W	09-11-89	21.60
281526082374701	STARKEY DP 729	28 15 26 N	082 37 47 W	05-15-89	24.75
				09-11-89	24.90
281528082383801	STARKEY W1 PROD.	28 15 28 N	082 38 38 W	05-18-89	18.70
				09-11-89	18.97
281530082380101	STARKEY WF W4B	28 15 30 N	082 38 01 W	05-15-89	23.81
				09-11-89	24.72
281530082381301	STARKEY WELL SP-4 NR ODESSA, FL	28 15 30 N	082 38 13 W	05-15-89	24.44
				09-11-89	24.41
281530082384801	STARKEY SM-1SH NEAR NEW PORT RICHEY FL	28 15 30 N	082 38 48 W	05-15-89	21.76
				09-11-89	21.89
281532082390401	STARKEY W/F W-5 NR NEW PORT RICHEY,FL	28 15 32 N	082 39 04 W	09-11-89	10.20
281532082412301	NEW PORT RICHEY DP	28 15 32 N	082 41 23 W	05-19-89	3.34
				09-15-89	4.38
281535082241301	CYPRESS CK DP TMR-5	28 15 35 N	082 24 13 W	05-15-89	51.97
				09-11-89	50.94
281535082241302	CYPRESS CK SH TMR-5	28 15 35 N	082 24 13 W	05-15-89	57.77
				09-11-89	58.55
281548082220601	815 222	28 15 48 N	082 22 06 W	05-15-89	61.91
				09-12-89	62.81
281609082242901	CYPRESS CR 1 D. WELL 805 NR DREXEL	28 16 09 N	082 24 29 W	05-15-89	51.98
				09-11-89	50.88
281613082242901	WELL 8162241329	28 16 13 N	082 24 29 W	05-15-89	52.15
				09-11-89	50.81
281615082242501	CYPRESS CR2 S. WEL NR DREXEL	28 16 15 N	082 24 25 W	05-15-89	62.23
				09-11-89	62.20
281631082261601	CATCHING'S D. WELL 849 NR DREXEL	28 16 31 N	082 26 16 W	05-15-89	67.31
				09-12-89	66.43

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1988 TO SEPTEMBER 1989

STATION NUMBER	STATION NAME	LAT-I-TUDE	LONG-I-TUDE	DATE	ELEV-ATION ABOVE NGVD (FEET)
	PASCO COUNTY				
281637082233501	CYPRESS CR WF D. WELL 829 NR DREXEL	28 16 37 N	082 23 35 W	05-15-89	46.67
				09-11-89	43.71
281637082233502	CYPRESS CR WF S. WELL 829 NR DREXEL	28 16 37 N	082 23 35 W	05-15-89	64.51
				09-11-89	66.58
281641082240202	CYPRESS CREEK WF C-10 SUPPLY	28 16 41 N	082 24 02 W	05-15-89	42.91
				09-11-89	40.70
281642082440201	COASTAL PASCO D. WELL 04 AT PORT RICHEY, FL	28 16 42 N	082 44 02 W	05-17-89	0.99
				09-12-89	1.80
281650082244501	CYPRESS CREEK DP WELL TMR 4 NEAR SAN ANTONIO, FL	28 16 50 N	082 24 45 W	05-15-89	51.19
				09-11-89	49.55
281650082244502	CYPRESS CREEK SH WELL TMR 4 NEAR SAN ANTONIO, FL	28 16 50 N	082 24 45 W	05-15-89	55.31
281654082201601	CARR D. WELL 846 NR SAN ANTONIO	28 16 54 N	082 20 16 W	05-15-89	75.20
				09-12-89	75.22
281656082251201	CYPRESS CR WF S. WELL 831 NR DREXEL	28 16 56 N	082 25 12 W	05-15-89	56.93
				09-11-89	55.54
281656082251202	816 225 02	28 16 56 N	082 25 12 W	05-15-89	58.07
				09-11-89	57.01
281719082224801	CYPRESS CK DP TMR-1	28 17 19 N	082 22 48 W	05-15-89	52.38
				09-11-89	52.61
281723082234601	CYPRESS CR WF D. WELL 826 NR DREXEL	28 17 23 N	082 23 46 W	05-15-89	45.77
				09-11-89	45.13
281723082234602	CYPRESS CR WF S. WELL 826 NR DREXEL	28 17 23 N	082 23 46 W	05-15-89	60.30
				09-11-89	60.52
281745082255001	STARLING D. WELL 809 NR DREXEL	28 17 45 N	082 25 50 W	05-15-89	66.83
				09-12-89	65.95
281746082233701	CYPRESS CK TMR-3	28 17 46 N	082 23 37 W	05-15-89	47.65
				09-11-89	48.99
281746082233702	CYPRESS CK SH TMR-3	28 17 46 N	082 23 37 W	05-15-89	56.45
281748082225301	CYPRESS CR WF D. WELL E-108 NR DREXEL	28 17 48 N	082 22 53 W	05-15-89	46.54
281748082225302	CYPRESS CR WF S. WELL E-108 NR DREXEL	28 17 48 N	082 22 53 W	05-15-89	59.83
281801082225101	CYPRESS CR WF D. WELL E-107 NR DREXEL	28 18 01 N	082 22 51 W	09-11-89	47.54
281801082225102	CYPRESS CR WF S. WELL E-107 NR DREXEL	28 18 01 N	082 22 51 W	05-15-89	64.40
				09-11-89	62.74
281802082225001	WELL 8182220250	28 18 02 N	082 22 50 W	05-15-89	32.02
281804082223201	C-11 WELL NEAR DREXEL, FL	28 18 04 N	082 22 32 W	09-11-89	51.78
281809082224401	CYPRESS CR WF D. WELL E-106 NR DREXEL	28 18 09 N	082 22 44 W	05-15-89	55.66
				09-11-89	47.98
281809082224403	CYPRESS CR WF S. WELL E-106 NR DREXEL	28 18 09 N	082 22 44 N	05-15-89	62.85
281827082194501	81821901 CYPRESS CREEK WELL 853S	28 18 27 N	082 19 45 W	05-15-89	69.29
281828082223201	CYPRESS CREEK WF S. WELL 824 NR DREXEL	28 18 28 N	082 22 32 W	05-15-89	65.72
281844082224101	CYPRESS CR WF S. WELL 822 NR DREXEL	28 18 44 N	082 22 41 W	05-15-89	69.59
				09-11-89	68.23
281845082224001	CYPRESS CK DP TMR-2	28 18 45 N	082 22 40 W	05-15-89	63.91
				09-11-89	63.76
281845082224002	CYPRESS CK SH TMR-2	28 18 45 N	082 22 40 W	05-15-89	65.12
				09-11-89	64.67
281850082221301	CYPRESS CR WF D. WELL 821 NR DREXEL	28 18 50 N	082 22 13 W	05-15-89	66.12
				09-11-89	65.78
281850082221302	CYPRESS CR WF S. WELL 821 NR DREXEL	28 18 50 N	082 22 13 W	05-15-89	68.82
				09-11-89	66.51

STATION NUMBER	STATION NAME	LAT-I-TUDE	LONG-I-TUDE	DATE	ELEV-ATION ABOVE NGVD (FEET)
	PASCO COUNTY				
281931082284101	SRW-DEEP NR DARBY	28 19 31 N	082 28 41 W	05-15-89	69.40
				09-11-89	67.59
281931082284102	SRW-SH NR DARBY	28 19 31 N	082 28 41 W	05-15-89	70.62
				09-11-89	69.84
281948082415301	WITHLACOOCHEE ELEC 01 AT BAYONET POINT, FL	28 19 48 N	082 41 53 W	05-17-89	1.08
281954082413401	PONDEROSA DEV D. WELL AT BAYONET POINT,FL	28 19 54 N	082 41 34 W	05-17-89	1.70
				09-12-89	2.22
282044082312401	H. KENT GROVE WELL	28 20 44 N	082 31 24 W	05-15-89	61.57
				09-12-89	62.00
282108082290501	CROSSBAR WF N4S3 DEEP	28 21 08 N	082 29 05 W	05-15-89	68.56
				09-11-89	66.39
282115082283701	CROSSBAR WF N-16 DEEP	28 21 15 N	082 28 37 W	05-15-89	66.11
				09-11-89	62.48
282123082274401	CB-1 NR MASARYKTOWN	28 21 23 N	082 27 44 W	09-11-89	66.39
282133082275301	CB-2 NR MASARYKTOWN	28 21 33 N	082 27 53 W	05-15-89	66.66
				09-11-89	63.78
282148082281801	CROSSBAR WF A-1 DEEP	28 21 48 N	082 28 18 W	05-15-89	60.76
282148082281802	CROSSBAR WF A-1 SHALLOW	28 21 48 N	082 28 18 W	05-15-89	65.84
				09-11-89	60.78
282148082300701	FIVAY # 732 SHALLOW	28 21 48 N	082 30 07 W	05-15-89	64.15
				09-12-89	62.56
282154082280101	CB-4 NR MASARYKTOWN	28 21 54 N	082 28 01 W	05-15-89	61.35
				09-11-89	58.01
282154082280401	CROSSBAR WF A-2 DEEP	28 21 54 N	082 28 04 W	05-15-89	61.24
				09-11-89	58.10
282154082280402	CROSSBAR WF A-2 SHALLOW	28 21 54 N	082 28 04 W	05-15-89	66.56
				09-11-89	61.51
282207082271101	CROSSBAR WF A-3 DEEP	28 22 07 N	082 27 11 W	05-15-89	64.76
				09-11-89	60.98
282207082271102	CROSSBAR WF A-3 SHALLOW	28 22 07 N	082 27 11 W	05-15-89	66.25
				09-11-89	63.43
282222082280701	CB-5 NR MASARYKTOWN	28 22 22 N	082 28 07 W	05-15-89	60.68
282229082405801	COASTAL PASCO D. WELL 02 AT HUDSON, FL	28 22 29 N	082 40 58 W	05-17-89	2.99
				09-12-89	5.78
282233082283801	CB-6 NR MASARYKTOWN	28 22 33 N	082 28 38 W	05-15-89	57.95
				09-11-89	56.04
282238082362101	JUSTICE DP NR HUDSON	28 22 38 N	082 36 21 W	05-16-89	25.62
				09-12-89	24.80
282259082282801	CROSSBAR WF B-1 DEEP	28 22 59 N	082 28 28 W	05-15-89	56.76
				09-11-89	54.43
282259082282802	CROSSBAR WF B-1 SHALLOW	28 22 59 N	082 28 28 W	05-15-89	59.26
				09-11-89	53.82
282302082290301	CROSSBAR WF S-1 SHALLOW	28 23 02 N	082 29 03 W	05-15-89	59.28
				09-11-89	53.74
282310082281901	CB-8 NR MASARYKTOWN	28 23 10 N	082 28 19 W	05-15-89	55.10
				09-11-89	52.45
282313082284301	CROSSBAR WF B-2 DEEP	28 23 13 N	082 28 43 W	05-15-89	55.19
				09-11-89	52.69
282313082284302	CROSSBAR WF B-2 SHALLOW	28 23 13 N	082 28 43 W	05-15-89	58.99
282326082280901	CROSSBAR WF N4S2 DEEP	28 23 26 N	082 28 09 W	05-15-89	50.99
282326082285201	CROSSBAR WF B-3 DEEP	28 23 26 N	082 28 52 W	05-15-89	50.41
				09-11-89	47.66

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1988 TO SEPTEMBER 1989

STATION NUMBER	STATION NAME	LAT-I-TUDE	LONG-I-TUDE	DATE	ELEV-ATION ABOVE NGVD (FEET)
	PASCO COUNTY				
282326082285202	CROSSBAR WF B-3 SHALLOW	28 23 26 N	082 28 52 W	05-15-89	53.17
				09-11-89	48.60
282330082290501	ROUAN FARMS 4 INCH BARN WELL	28 23 30 N	082 29 05 W	09-12-89	63.98
282342082274801	CB-10 NR MASARYKTOWN	28 23 42 N	082 27 48 W	09-11-89	43.86
282346082271201	CB-11 NR DARBY	28 23 46 N	082 27 12 W	05-15-89	42.38
				09-11-89	46.09
282352082263901	CB-12 NR MASARYKTOWN	28 23 52 N	082 26 39 W	05-15-89	39.67
				09-11-89	43.35
282408082274201	CROSSBAR WF C-1 DEEP	28 24 08 N	082 27 42 W	05-15-89	26.16
				09-11-89	38.43
282410082271301	CROSSBAR WF C DEEP	28 24 10 N	082 27 13 W	09-11-89	42.98
282411082261401	CROSSBAR WF C-3 DEEP	28 24 11 N	082 26 14 W	05-15-89	45.76
				09-11-89	46.70
282411082261402	CROSSBAR WF C-3 SHALLOW	28 24 11 N	082 26 14 W	05-15-89	48.30
				09-11-89	47.63
282413082263801	CROSSBAR WF C-2 DEEP	28 24 13 N	082 26 38 W	05-15-89	38.62
				09-11-89	43.05
282417082271001	CROSSBAR WF N4S DEEP	28 24 17 N	082 27 10 W	05-15-89	36.97
282419082271201	CROSSBAR WF N-2 DEEP	28 24 19 N	082 27 12 W	05-15-89	38.76
				09-11-89	41.84
282422082263901	CB-14 NR MASARYKTOWN	28 24 22 N	082 26 39 W	09-11-89	42.68
282430082271201	CROSSBAR WF N-1 DEEP	28 24 30 N	082 27 12 W	05-15-89	38.07
				09-11-89	41.18
282434082200301	AIRSTREAM TRL PARK D. WELL 833 NR DARBY	28 24 34 N	082 20 03 W	05-15-89	71.60
				09-12-89	69.85
282434082283601	D. A. SUTYAK	28 24 34 N	082 28 36 W	09-12-89	32.36
282441082271201	CROSSBAR WF N-12 DEEP	28 24 41 N	082 27 12 W	05-15-89	33.53
				09-11-89	35.36
282442082273901	CB-16 LAYNE NR LOYCE,FL	28 24 42 N	082 27 39 W	05-15-89	29.87
				09-11-89	33.46
282444082273001	NWO-1 DEEP NR DARBY	28 24 44 N	082 27 30 W	05-15-89	33.58
				09-11-89	34.16
282504082280301	NWO-2 DEEP NR DARBY	28 25 04 N	082 28 03 W	05-15-89	35.36
				09-11-89	33.54
282505082271101	NRW-D NR DARBY	28 25 05 N	082 27 11 W	05-15-89	35.50
				09-11-89	34.88
282516082365501	LORE DP NR ARIPEKA	28 25 16 N	082 36 55 W	05-16-89	14.37
				09-12-89	14.94
282552082314201	GOOCH DP NR MASARKTN	28 25 52 N	082 31 42 W	05-15-89	27.74
				09-12-89	26.34

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
PASCO COUNTY							
281023082450701 COASTAL PASCO D. WELL 13 NR NEW PORT RICHEY,FL (LAT 28 10 23N LONG 082 45 07W)							
SEP 1989							
12...	1345	21000	--	--	--	--	--
281053082310401 ST PETE DP 105 (LAT 28 10 53N LONG 082 31 04W)							
DEC 1988							
22...	1350	1020	--	22.5	--	--	--
FEB 1989							
09...	1037	1040	--	22.0	--	--	--
APR							
13...	1153	865	--	23.0	--	--	--
JUN							
05...	1000	860	--	23.0	--	--	--
AUG							
09...	0905	835	--	23.0	--	--	--
281532082412301 NEW PORT RICHEY DP (LAT 28 15 32N LONG 082 41 23W)							
MAY 1989							
19...	1125	27300	--	24.5	--	--	--
SEP							
15...	1301	27000	--	24.5	--	--	--
281917082420901 ROMP TR 17-1 DEEP WELL AT BAYONET POINT, FL (LAT 28 19 17N LONG 082 42 09W)							
OCT 1988							
13...	1506	3420	--	24.5	--	--	--
DEC							
15...	1534	3200	--	24.0	--	--	--
FEB 1989							
14...	1643	3200	--	25.5	--	--	--
APR							
17...	1638	3270	--	25.0	--	--	--
JUN							
13...	1532	3400	7.29	24.5	130	41	490
AUG							
08...	1547	3380	--	24.5	--	--	--
281922082403901 ROMP TR 17-3 DEEP WELL NR BAYONET POINT, FL (LAT 28 19 22N LONG 082 40 39W)							
OCT 1988							
18...	1605	8200	--	24.0	--	--	--
DEC							
22...	0910	8200	--	24.0	--	--	--
FEB 1989							
14...	1558	8500	--	24.0	--	--	--
APR							
17...	0947	8700	--	24.0	--	--	--
JUN							
13...	1412	9000	--	24.5	--	--	--
AUG							
08...	1437	9000	--	24.5	--	--	--
282009082373801 STATE HWY 52 DP (LAT 28 20 09N LONG 082 37 38W)							
OCT 1988							
18...	1531	270	--	25.5	--	--	--
DEC							
22...	0951	277	--	24.0	--	--	--
FEB 1989							
14...	1524	282	--	25.0	--	--	--
APR							
17...	0911	277	--	24.0	--	--	--
JUN							
13...	1240	278	--	25.5	--	--	--
AUG							
08...	1350	274	--	25.0	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	STRONTIUM, DISSOLVED (UG/L AS SR)
PASCO COUNTY							
281023082430701 COASTAL PASCO D. WELL 13 NR NEW PORT RICHEY,FL (LAT 28 10 23N LONG 082 45 07W)							
SEP							
12...	--	1000	7400	--	--	--	--
281053082310401 ST PETE DP 105 (LAT 28 10 53N LONG 082 31 04W)							
DEC 1988							
22...	--	--	64	--	--	--	--
FEB 1989							
09...	--	--	82	--	--	--	--
APR							
13...	--	--	48	--	--	--	--
JUN							
05...	--	--	44	--	--	--	--
AUG							
09...	--	340	43	--	--	--	--
281532082412301 NEW PORT RICHEY DP (LAT 28 15 32N LONG 082 41 23W)							
MAY 1989							
19...	--	1700	9000	--	--	--	--
SEP							
15...	--	--	9600	--	--	--	--
281917082420901 ROMP TR 17-1 DEEP WELL AT BAYONET POINT, FL (LAT 28 19 17N LONG 082 42 09W)							
OCT 1988							
13...	--	--	930	--	--	--	--
DEC							
15...	--	--	850	--	--	--	--
FEB 1989							
14...	--	--	860	--	--	--	--
APR							
17...	--	--	850	--	--	--	--
JUN							
13...	20	100	880	0.10	7.9	2000	980
AUG							
08...	--	100	920	--	--	--	--
281922082403901 ROMP TR 17-3 DEEP WELL NR BAYONET POINT, FL (LAT 28 19 22N LONG 082 40 39W)							
OCT 1988							
18...	--	--	2500	--	--	--	--
DEC							
22...	--	--	2600	--	--	--	--
FEB 1989							
14...	--	--	2600	--	--	--	--
APR							
17...	--	--	2700	--	--	--	--
JUN							
13...	--	250	2800	--	--	--	--
AUG							
08...	--	240	2900	--	--	--	--
282009082373801 STATE HWY 52 DP (LAT 28 20 09N LONG 082 37 38W)							
OCT 1988							
18...	--	--	4.6	--	--	--	--
DEC							
22...	--	--	4.9	--	--	--	--
FEB 1989							
14...	--	--	5.0	--	--	--	--
APR							
17...	--	--	4.9	--	--	--	--
JUN							
13...	--	--	5.0	--	--	--	--
AUG							
08...	--	--	5.1	--	--	--	--

KEY TO SITE LOCATIONS ON FIGURE 25

PINELLAS COUNTY

INDEX NUMBER	SITE NUMBER	PAGE NUMBER	INDEX NUMBER	SITE NUMBER	PAGE NUMBER
1	275430082431401	205	13	280457082420401	216
1	275430082431402	205	13	280457082420402	217
1	275430082431403	206	14	280511082405602	218
2	275458082464001	206	15	280532082405702	219
2	275458082464002	207	16	280546082390701	220
2	275458082464003	207	17	280556082405703	220
2	275458082464004	208	17	280603082410902	221
3	275753082433701	208	18	280614082411601	222
4	275315082440401	209	18	280614082411703	223
5	275825082460201	209	19	280617082405702	224
6	275843082474201	210	20	280631082411702	225
7	280002082412601	210	21	280631082454601	226
7	280002082412602	211	21	280632082455001	226
7	280002082412603	211	22	280734082442101	227
8	280022082424901	212	23	280747082452001	227
9	280054082471801	212	24	280753082465201	228
10	280118082434501	213	25	280852082414301	228
10	280118082434502	213	26	280907082424801	229
10	280118082434503	214	26	280907082424802	229
11	280132082452801	214	27	280908082394601	230
11	280132082452802	215	28	280946082391301	230
11	280132082452803	215	29	281022082400201	231
12	280446082390701	216			

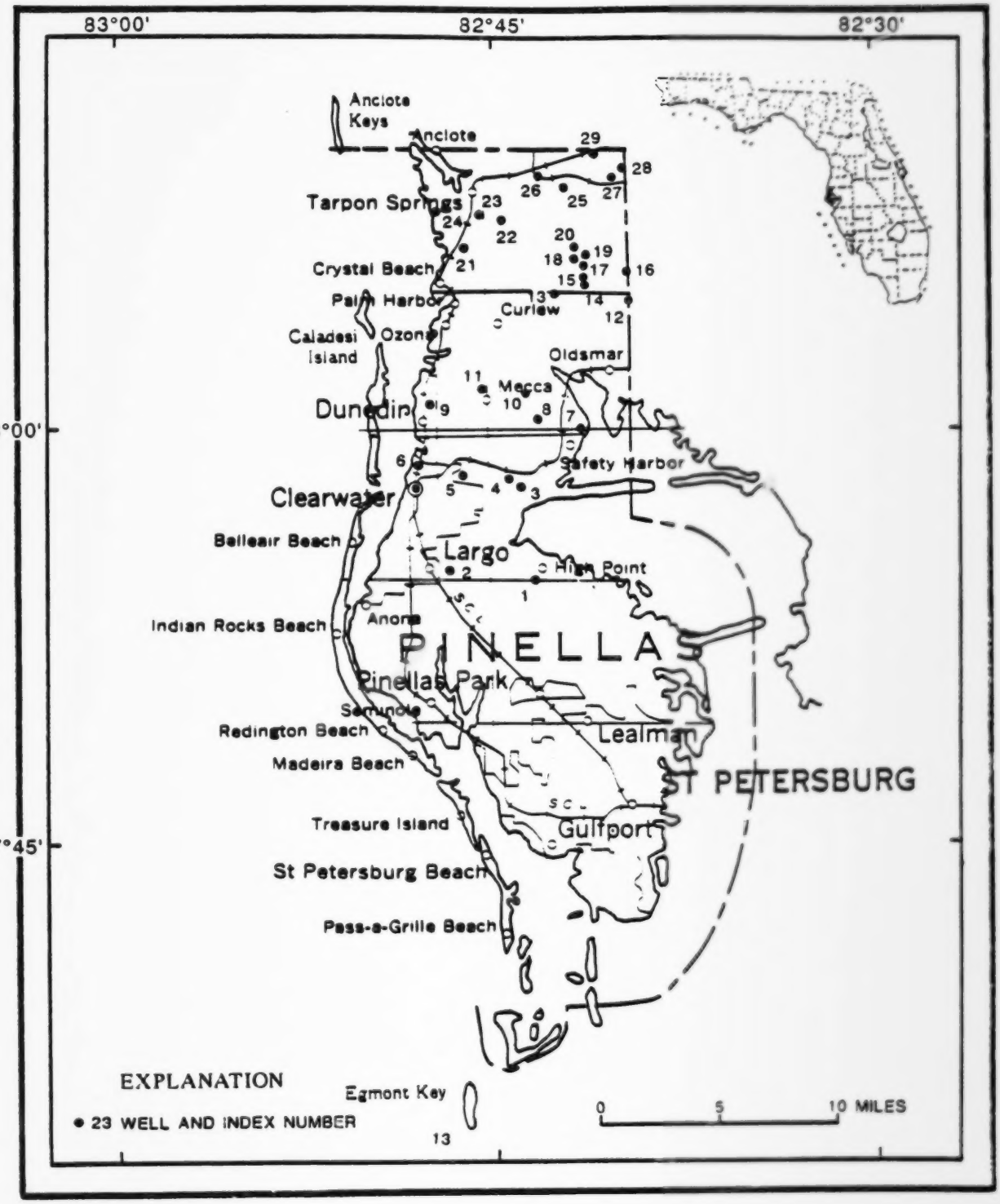

Figure 25.--Location of wells in Pinellas County.

PINELLAS COUNTY

WELL NUMBER.--275430082431401. ROMP TR 13-2A Lower Suwannee Well near Largo, FL.

LOCATION.--27°54'30", long 82°43'14", in SW¼SE¼ sec.32, T.29 S., R.16 E., Hydrologic Unit 03100206, 0.5 mi south of East Bay Drive, and 4.4 mi east of Largo. Owner: Southwest Florida Water Management District.

AQUIFER.--Suwannee Limestone of Oligocene Age, Geologic Unit 123 SWNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 551 ft, cased to 530 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 16.78 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District). Measuring point: Top of casing, 3.15 ft above land-surface datum.

REMARKS.--Well also sampled for water quality.

PERIOD OF RECORD.--April 1988 to current year (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.97 ft below NGVD, Aug. 22, 1988; lowest measured, 4.65 ft below NGVD, June 20, 1988.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			APR		
13...	1130	-2.60	06...	1440	-3.58
DEC			JUN		
13...	1230	-2.36	09...	0920	-3.26
JAN			AUG		
30...	1415	-2.44	08...	1145	-2.42

WELL NUMBER.--275430082431402. ROMP TR 13-2A Upper Suwannee Well near Largo, FL.

LOCATION.--Lat 27°54'30", long 82°43'14", in SW¼SE¼ sec.32, T.29 S., R.16 E., Hydrologic Unit 03100206, 0.5 mi south of East Bay Drive, and 4.4 mi east of Largo. Owner: Southwest Florida Water Management District.

AQUIFER.--Suwannee Limestone of Oligocene Age, Geologic Unit 123 SWNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 279 ft, cased to 269 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 17.64 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District). Measuring point: Top of coupling, 2.45 ft above land-surface datum.

REMARKS.--Well also sampled for water quality.

PERIOD OF RECORD.--April 1988 to current year (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.23 ft NGVD, Aug. 22, 1988; lowest measured, 3.46 ft NGVD, June 20, 1988.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			APR		
13...	1115	5.64	06...	1420	4.49
DEC			JUN		
13...	1210	5.88	09...	0855	4.83
JAN			AUG		
30...	1400	5.75	08...	1130	5.71

PINELLAS COUNTY

WELL NUMBER.--275430082431403. ROMP TR 13-2 NRSD Well near Largo, FL.

LOCATION.--Lat 27°54'30", long 82°43'14", in SW¼SE¼ sec.32, T.29 S., R.16 E., Hydrologic Unit 03100206, 0.5 mi south of East Bay Drive, and 2.0 mi east of Largo. Owner: Southwest Florida Water Management District.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water table well, diameter 8 in., depth 16 ft, cased to 10 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 17.49 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 2.95 ft above land-surface datum.

PERIOD OF RECORD.--October 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 17.03 ft NGVD, Sept. 8, 1988; lowest, 12.13 ft NGVD, July 17, 1988.

ELEVATION, (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	14.64	14.32	14.35	13.83	14.12	14.76	13.31	13.48	12.81	15.18	14.38	15.18
10	14.00	13.78	14.20	13.72	13.84	14.05	13.10	13.08	13.00	14.31	15.28	14.91
15	13.75	13.47	15.23	13.64	13.67	13.85	13.10	12.76	12.62	13.95	14.73	15.36
20	13.58	13.26	14.46	13.67	13.52	13.64	13.09	12.55	12.83	14.15	14.25	16.10
25	13.42	15.68	14.23	15.27	13.45	14.19	12.82	12.40	14.82	16.13	14.30	16.61
EOM	13.26	14.85	14.01	14.54	13.36	13.61	12.73	12.95	16.47	14.49	13.76	15.53
MAX	15.31	16.57	16.10	16.20	14.38	15.56	13.53	13.78	16.47	16.31	15.33	16.61

CAL YR 1988 MAX 17.03
WTR YR 1989 MAX 16.61

WELL NUMBER.--275458082464001. ROMP TR 13-1A Ocala Well at Largo, FL.

LOCATION.--Lat 27°54'58", long 82°46'40", in NW¼SW¼ sec.35, T.29 S., R.15 E., Hydrologic Unit 03100207, 50 ft south of East Bay Drive, and 0.9 mi northeast of Largo. Owner: Southwest Florida Water Management District.

AQUIFER.--Ocala Limestone of Eocene Age, Geologic Unit 124 OCAL.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 2 in., depth 540 ft, cased to 520 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 9.92 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.14 ft above land-surface datum.

REMARKS.--Well also sampled for water quality.

PERIOD OF RECORD.--April 1988 to current year (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.10 ft below NGVD, Aug. 19, 1988; lowest measured, 3.09 ft below NGVD, June 20, 1988.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			APR		
13...	1000	-0.70	06...	1320	-1.76
DEC			JUN		
13...	1415	-0.48	09...	1115	-1.61
JAN			AUG		
30...	1300	-0.59	08...	1310	-0.74
FEB					
28...	1017	-1.34			

PINELLAS COUNTY

WELL NUMBER.--275458082464002. ROMP TR 13-1A Suwannee Well at Largo, FL.

LOCATION.--Lat 27°54'58", long 82°46'40", in NW¼SW¼ sec.35, T.29 S., R.15 E., Hydrologic Unit 03100207, 50 ft south of East Bay Drive, and 0.9 mi northeast of Largo. Owner: Southwest Florida Water Management District.

AQUIFER.--Suwannee Limestone of Oligocene Age, Geologic Unit 123 SWNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 264 ft, cased to 254 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 10.16 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.68 ft above land-surface datum.

REMARKS.--Well also sampled for water quality.

PERIOD OF RECORD.--April 1988 to current year (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.64 ft NGVD, Aug. 19, 1988; lowest measured, 4.45 ft NGVD, June 20, 1988.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			APR		
13...	0905	7.03	06...	1240	5.86
DEC			JUN		
13...	1345	7.28	09...	1055	5.98
JAN			AUG		
30...	1215	7.03	08...	1240	6.98
FEB					
28...	1020	6.33			

WELL NUMBER.--275458082464003. ROMP TR 13-1A Tampa Well at Largo, FL.

LOCATION.--Lat 27°54'58", long 82°46'40", in NW¼SW¼ sec.35, T.29 S., R.15 E., Hydrologic Unit 03100207, 50 ft south of East Bay Drive, and 0.9 mi northeast of Largo. Owner: Southwest Florida Water Management District.

AQUIFER.--Tampa Limestone of Miocene Age, Geologic Unit 122 TAMP.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 188 ft, cased to 173 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 9.95 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.10 ft above land-surface datum.

REMARKS.--Well also sampled for water quality.

PERIOD OF RECORD.--April 1988 to current year (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.65 ft NGVD, Aug. 19, 1988; lowest measured, 4.45 ft NGVD, June 20, 1988.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			APR		
13...	0940	7.05	06...	1300	6.03
DEC			JUN		
13...	1400	7.29	09...	1030	6.14
JAN			AUG		
30...	1240	7.17	08...	1255	7.13
FEB					
28...	0951	6.47			

PINELLAS COUNTY

WELL NUMBER.--275458082464004. ROMP TR 13-1A NRSD Well at Largo, FL.

LOCATION.--Lat 27°54'58", long 82°46'40", in NW¼SW¼ sec.35, T.29 S., R.15 E., Hydrologic Unit 03100207, 50 ft south of East Bay Drive, and 0.9 mi northeast of Largo. Owner: Southwest Florida Water Management District.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, water level well, diameter 6 in., depth 20 ft, cased to 10 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 10.20 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.13 ft above land-surface datum.

PERIOD OF RECORD.--October 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 9.38 ft NGVD, Sept. 8, 1988; lowest, 2.70 ft NGVD, May 27, 28, 29, 1989.

ELEVATION, (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	3.65	3.40	3.74	3.41	3.36	3.74	3.05	2.86	2.83	3.59	3.47	3.24
10	3.44	3.30	3.59	3.39	3.21	3.43	2.99	e2.80	2.96	3.25	4.32	3.16
15	3.34	3.22	4.01	3.39	3.11	3.30	2.95	e2.78	2.87	3.07	3.97	3.06
20	3.27	3.19	3.67	3.34	3.19	3.18	2.92	e2.74	2.91	3.00	3.54	3.06
25	3.22	5.08	3.54	4.25	3.15	3.24	2.87	e2.72	3.23	3.89	3.64	3.69
EOM	3.17	4.09	3.46	3.59	3.22	3.13	2.83	2.71	4.10	3.36	3.30	3.52
MAX	3.72	6.35	4.23	4.56	3.54	3.82	3.10	2.97	4.10	4.11	4.32	3.76

CAL YR 1988 MAX 9.38
WTR YR 1989 MAX 6.35

e Estimated

WELL NUMBER.--275753082433701. Clearwater-Dunedin Deep Well 27 near Clearwater, FL.

LOCATION.--Lat 27°57'53", long 82°43'37", in SE¼NW¼ sec.17, T.29 S., R.16 E., Hydrologic Unit 03100207, 0.3 mi north of State Highway 60, and 4.3 mi east of Clearwater. Owner: U.S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation well, diameter 6 in., depth 560 ft, cased to 523 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 48.06 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.00 ft above land-surface datum.

REMARKS.--Well also sampled for water quality.

PERIOD OF RECORD.--October 1982 to September 1987 (bimonthly); March 1988 to current year (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.45 ft NGVD, Sept. 19, 1988; lowest measured, 0.67 ft below NGVD, May 18, 1984.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
04...	0900	2.73	15...	1445	1.11
NOV			JUN		
30...	1200	1.26	08...	1400	1.92
DEC			AUG		
15...	1230	2.58	07...	1300	2.21
JAN			SEP		
30...	1450	2.50	11...	1410	3.07
APR					
07...	1240	1.37			

PINELLAS COUNTY

WELL NUMBER.--275815082440401. Pinellas Well 665 near Clearwater, FL.

LOCATION.--Lat 27°58'15", long 82°44'04", in SW¼SE¼ sec.7, T.29 S., R.16 E., Hydrologic Unit 03100206, 1.1 mi north of State Highway 60, and 4.0 mi east of Clearwater. Owner: Pinellas County.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused public supply, artesian well, diameter 10 in., depth 299 ft, cased to 81 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 33.64 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.00 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells. Extremes may have been exceeded during periods of missing record.

PERIOD OF RECORD.--June 1954 to current year, incomplete. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 14.79 ft NGVD, Sept. 15, 1959; lowest, 7.18 ft NGVD, May 14, 15, 22, 1981.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	10.92	10.25	10.51	10.02	10.03	10.03	9.37	8.90	8.96	10.05	9.76	10.29
10	10.36	9.92	10.42	9.96	9.69	9.62	9.20	8.74	9.19	9.84	9.74	10.58
15	10.08	9.73	10.41	9.88	9.69	9.72	9.07	8.45	9.03	9.63	10.23	10.46
20	9.99	9.88	10.32	9.75	9.63	9.52	9.06	8.33	9.28	9.74	9.95	10.44
25	10.13	10.55	10.29	9.92	9.40	9.67	8.88	8.24	9.65	10.01	10.01	10.72
EOM	9.83	10.87	10.15	10.19	9.56	9.54	8.80	8.49	9.98	10.03	10.09	10.82
MAX	11.06	11.06	10.84	10.27	10.18	10.08	9.41	8.94	9.98	10.22	10.23	10.87

CAL YR 1988 MAX 12.02
WTR YR 1989 MAX 11.06

WELL NUMBER.--275825082460201. Clearwater Well 30 near Clearwater, FL.

LOCATION.--Lat 27°58'25", long 82°46'02", in NE¼NW¼ sec.11, T.29 S., R.15 E., Hydrologic Unit 03100207, 1,500 ft north of Drew Street, 1.0 mi west of Belcher Road, and 1.5 mi northwest of Clearwater. Owner: City of Clearwater.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused public supply, artesian well, diameter 10 in., depth 277 ft, cased to 80.3 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 70.50 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 4.17 ft above land-surface datum.

REMARKS.--Water levels affected by tidal fluctuations and pumping of nearby public supply wells. Well also sampled for water quality. Extremes may have been exceeded during periods of missing record.

PERIOD OF RECORD.--February 1983 to September 1987 (discontinued); April 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 8.90 ft NGVD, Sept. 10, 1988; lowest, 2.96 ft NGVD, June 10, 1985.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.00	7.58	7.44	6.91	7.06	7.73	6.78	6.39	6.63	7.67	7.48	8.17
10	7.13	6.87	7.39	6.84	6.66	7.06	6.67	6.28	6.70	7.41	7.62	8.40
15	6.68	6.53	7.55	6.76	6.61	7.29	6.70	5.81	6.55	7.11	8.02	8.08
20	6.86	6.83	7.47	6.65	6.76	6.92	6.60	5.63	7.13	7.48	7.83	7.92
25	6.86	7.75	7.34	7.11	6.81	7.23	6.36	5.69	7.50	7.75	7.80	8.61
EOM	6.77	7.88	7.05	7.21	7.05	7.06	6.34	6.18	7.73	7.76	7.77	8.56
MAX	8.19	8.25	7.92	7.32	7.22	7.74	6.90	6.66	7.73	7.97	8.10	8.70

WTR YR 1989 MAX 8.70

PINELLAS COUNTY

WELL NUMBER.--275843082474201. Garden Street Triangle Well at Clearwater, FL.

LOCATION.--Lat 27°58'43", long 82°47'42", in NE¼NE¼ sec.9, T.29 S., R.15 E., Hydrologic Unit 03100207, 0.9 mi north of State Highway 60, and 1.0 mi north of City Hall at Clearwater. Owner: City of Clearwater.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused public supply, artesian well, diameter 10 in., depth 208 ft, cased to 54 ft.

INSTRUMENTATION.--Monthly measurement with steel tape.

DATUM.--Land-surface datum is 32.27 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of shelter floor, 1.17 ft above land-surface datum. Prior to April 1977, top of shelter floor, 1.55 ft above land-surface datum.

REMARKS.--Water levels affected by tide. Extremes may have been exceeded during periods of missing record.

PERIOD OF RECORD.--March 1946 to September 1983, incomplete; October 1983 to current year (monthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 8.63 ft NGVD, Sept. 6, 1950; lowest, 3.55 ft NGVD, May 25, 1956.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
04...	1126	6.16	03...	1238	4.51
NOV			15...	1100	4.14
09...	1330	5.18	JUN		
DEC			07...	1115	4.96
12...	1209	5.63	JUL		
JAN			18...	0939	5.02
06...	0907	5.22	AUG		
31...	1155	5.34	01...	1117	5.40
FEB			SEP		
28...	0823	5.00	05...	0940	5.54
APR			11...	1130	5.87
07...	1430	4.85			

WELL NUMBER.--280002082412601. ROMP TR 14-1 Suwannee Well at Safety Harbor, FL.

LOCATION.--Lat 28°00'02", long 82°41'26", in NE¼SW¼ sec.34, T.28 S., R.16 E., Hydrologic Unit 03100206, 0.4 mi west of State Highway 590, and 0.5 mi north of Safety Harbor. Owner: Southwest Florida Water Management District.

AQUIFER.--Suwannee Limestone of Oligocene Age, Geologic Unit 123 SWNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 284 ft, cased to 264 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 16.18 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District). Measuring point: Top of casing, 4.65 ft above land-surface datum.

REMARKS.--Well also sampled for water quality.

PERIOD OF RECORD.--April 1988 to current year (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.36 ft NGVD, Oct. 5, 1988; lowest measured, 6.82 ft NGVD, June 17, 1988.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			JUN		
05...	1330	9.36	07...	0910	7.70
DEC			AUG		
12...	1414	8.85	04...	1010	8.38
JAN			SEP		
31...	0925	8.38	05...	1345	8.69
APR					
07...	1130	7.49			

PINELLAS COUNTY

WELL NUMBER.--280002082412602. ROMP TR 14-1 Tampa Well at Safety Harbor, FL.

LOCATION.--Lat 28°00'02", long 82°41'26", in NE¼SW¼ sec.34, T.28 S., R.16 E., Hydrologic Unit 03100206, 0.4 mi west of State Highway 590, and 0.5 mi north of Safety Harbor. Owner: Southwest Florida Water Management District.

AQUIFER.--Tampa Limestone of Miocene Age, Geologic Unit 122 TAMP.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 10 in., depth 170 ft, cased to 70 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 16.18 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District). Measuring point: Top of casing, 4.00 ft above land-surface datum.

REMARKS.--Well also sampled for water quality.

PERIOD OF RECORD.--April 1988 to current year (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.60 ft NGVD, Oct. 5, 1988; lowest measured, 7.45 ft NGVD, June 17, 1988.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			APR		
05...	1345	10.60	07...	1150	8.31
DEC			JUN		
12...	1435	10.29	07...	1035	8.11
JAN			AUG		
31...	0941	9.50	04...	1030	9.24

WELL NUMBER.--280002082412603. ROMP TR 14-1 NRSD Well at Safety Harbor, FL.

LOCATION.--28°00'02", long 82°41'26", in SE¼SW¼ sec.34, T.28 S., R.16 E., Hydrologic Unit 03100206, 0.4 mi west of State Highway 590, and 0.5 mi north of Safety Harbor. Owner: Southwest Florida Water Management District.

AQUIFER.--Nonartesian sand aquifer of Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water table well, diameter 6 in., depth 20 ft, cased to 14 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 16.02 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.65 ft above land-surface datum.

PERIOD OF RECORD.--October 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 15.68 ft NGVD, Sept. 8, 1988; lowest, 7.70 ft NGVD, May 27, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	12.66	10.75	12.20	11.05	10.74	9.91	9.03	8.34	8.03	10.30	10.01	10.50
10	12.10	10.49	11.89	10.80	10.41	9.72	8.88	8.22	8.22	9.90	9.77	11.60
15	11.82	10.25	12.40	10.57	10.19	9.58	8.72	7.96	8.15	9.61	9.83	11.50
20	11.50	10.08	11.89	10.34	9.98	9.40	8.61	7.89	8.33	9.59	9.71	12.24
25	11.21	13.06	11.58	11.52	9.77	9.42	8.47	7.80	9.22	10.40	9.85	12.82
EOM	10.81	12.67	11.27	11.05	9.79	9.29	8.40	7.88	10.09	10.26	9.74	12.26
MAX	12.96	13.38	12.80	11.59	11.00	9.93	9.21	8.52	10.09	10.50	10.26	12.84

CAL YR 1988 MAX 15.68
WTR YR 1989 MAX 13.38

PINELLAS COUNTY

WELL NUMBER.--280022082424901. Clearwater Well 67 near Clearwater, FL.

LOCATION.--Lat 28°00'22", long 82°42'49", in NE¼SE¼ sec.32, T.28 S., R.16 E., Hydrologic Unit 03100206, 1.0 mi north of State Highway 588, 1.0 mi east of U. S. Highway 19, and 3.5 mi northeast of Clearwater. Owner: City of Clearwater.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused public supply, artesian well, diameter 12 in., depth 297 ft, cased to 92 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 59.71 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 0.98 ft above land-surface datum.

REMARKS.--Water levels affected by tidal fluctuations. Well also sampled for water quality.

PERIOD OF RECORD.--February 1983 to September 1987 (discontinued); April 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 11.38 ft NGVD, Sept. 1, 1985; lowest, 7.03 ft NGVD, June 20, 1988.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.00	9.19	8.79	8.49	8.66	8.98	8.57	8.73	8.68	9.75	9.50	9.98
10	8.59	8.56	8.94	8.49	8.18	8.46	8.52	8.32	8.84	9.38	9.49	10.17
15	8.51	8.56	8.75	8.44	8.67	8.84	8.69	7.92	8.79	9.36	9.98	10.17
20	8.77	8.64	8.78	8.41	8.46	8.55	8.73	7.91	9.16	9.63	9.67	9.33
25	8.85	9.01	8.70	8.48	8.03	8.66	8.61	7.91	9.35	9.52	9.75	10.44
EOM	8.52	9.08	8.67	8.80	8.64	8.72	8.55	8.18	9.68	9.83	9.89	10.38
MAX	9.34	9.72	9.10	8.88	8.75	8.99	8.74	8.83	9.68	9.90	9.98	10.53

WTR YR 1989 MAX 10.53

WELL NUMBER.--280054082471801. Keller Engineering Deep Well at Dunedin, FL.

LOCATION.--Lat 28°00'54", long 82°47'18", in SE¼SW¼ sec.27, T.28 S., R.15 E., Hydrologic Unit 03100207, 100 ft west of Douglas Road, and 0.3 mi north of Main Street at Dunedin. Owner: Keller Engineering and Sales Company.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused industrial, artesian well, diameter 12 in., depth 195 ft.

INSTRUMENTATION.--Monthly measurement with steel tape.

DATUM.--Land-surface datum is 13.57 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top edge of concrete lip above well casing, at land-surface datum.

PERIOD OF RECORD.--January 1960 to September 1981 (bimonthly); October 1981 to current year (monthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.13 ft NGVD, Sept. 8, 1966; lowest measured, 3.26 ft below NGVD, May 19, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
04...	1112	3.93	03...	1225	0.45
NOV			15...	1240	-0.61
09...	1350	2.61	JUN		
DEC			07...	1130	0.38
12...	1145	1.95	JUL		
JAN			18...	0925	0.82
06...	0850	1.05	AUG		
31...	1208	1.26	01...	1103	2.22
FEB			SEP		
28...	1120	0.45	05...	1255	1.61
APR			11...	1330	2.65
05...	1220	0.88			

PINELLAS COUNTY

WELL NUMBER.--280118082434501. ROMP TR 14-3 Suwannee Well near Dunedin, FL.

LOCATION.--Lat 28°01'18", long 82°43'45", in SW¼NW¼ sec.29, T.28 S., R. 16 E., Hydrologic Unit 03100206, 1,000 ft north of State Highway 580, and 3.5 mi northeast of Dunedin. Owner: Southwest Florida Water Management District.

AQUIFER.--Suwannee Limestone of Oligocene Age, Geologic Unit 123 SWNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 319 ft, cased to 299 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 95.23 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of shelter floor, 2.38 ft above land-surface datum.

REMARKS.--Well also sampled for water quality.

PERIOD OF RECORD.--April 1988 to current year (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.14 ft NGVD, Oct. 3, 1988; lowest measured, 5.51 ft NGVD, June 17, 1988.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			APR		
03...	1317	9.14	07...	0920	6.58
DEC			JUN		
07...	1445	8.18	06...	0900	6.98
FEB			AUG		
01...	0925	7.47	01...	0840	7.91

WELL NUMBER.--280118082434502. ROMP TR 14-3 Tampa Well near Dunedin, FL.

LOCATION.--Lat 28°01'18", long 82°43'45", in SW¼NW¼ sec. 29, T.28 S., R.16 E., Hydrologic Unit 03100206, 1,000 ft north of State Highway 580, and 3.5 mi northeast of Dunedin. Owner: Southwest Florida Water Management District.

AQUIFER.--Tampa limestone of Miocene Age, Geologic Unit 112 TAMP.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 10 in., depth 176 ft, cased to 125 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 95.23 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of shelter floor, 2.38 ft above land-surface datum.

PERIOD OF RECORD.--October 1988 to September 1989 (bimonthly), incomplete.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.98 ft NGVD, Dec. 7, 1988; lowest measured, 6.26 ft NGVD, Apr. 7, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
DEC			JUN		
07...	1530	7.98	06...	0854	6.69
FEB			AUG		
01...	0915	6.96	01...	0850	7.56
APR					
07...	0934	6.26			

PINELLAS COUNTY

WELL NUMBER.--280118082434503. ROMP TR 14-3 NRSD Well near Dunedin, FL.

LOCATION.--Lat 28°01'18", long 82°43'45", in SW¼NW¼ sec. 29, T.28 S., R.16 E., Hydrologic Unit 03100206, 1,000 ft north of State Highway 580, and 3.5 mi northeast of Dunedin. Owner: Southwest Florida Water Management District.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation well, diameter 6 in., depth 30 ft, cased to 10 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 95.49 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.31 ft above land-surface datum.

PERIOD OF RECORD.--October 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 95.17 ft NGVD, Sept. 8, 1988; lowest, 89.27 ft NGVD, May 28, 29, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	91.75	90.77	92.13	91.40	91.23	90.85	90.09	89.55	89.58	91.56	90.84	92.59
10	91.47	90.88	91.94	91.25	91.05	90.70	89.97	89.48	90.30	91.11	91.35	92.26
15	91.27	90.72	92.27	91.05	90.86	90.47	89.89	89.42	90.16	90.81	91.33	91.75
20	91.07	90.55	91.86	90.89	90.73	90.37	89.80	89.37	90.55	90.66	91.31	91.52
25	90.88	93.29	91.71	91.87	90.61	90.30	89.71	89.31	91.22	91.46	91.08	92.39
EOM	90.68	92.53	91.54	91.42	90.53	90.19	89.63	89.36	91.66	91.22	91.27	91.92
MAX	91.84	94.18	92.65	91.98	91.38	90.85	90.17	89.62	91.66	91.81	91.47	92.65

CAL YR 1988 MAX 95.17
WTR YR 1989 MAX 94.18

WELL NUMBER.--280132082452801. ROMP TR 14-2 Ocala Well near Dunedin, FL.

LOCATION.--Lat 28°01'32", long 82°45'28", in SE¼NW¼ sec.25, T.28 S., R.15 E., Hydrologic Unit 03100207, 0.5 mi north of State Highway 580, and 2.0 mi northeast of Dunedin. Owner: Southwest Florida Water Management District.

AQUIFER.--Ocala Limestone of Eocene Age, Geologic Unit 124 OCAL.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 460 ft, cased to 440 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 54.52 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.85 ft above land-surface datum.

REMARKS.--Well also sampled for water quality.

PERIOD OF RECORD.--April 1988 to current year (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.89 ft NGVD, Oct. 4, 1988; lowest measured, 1.37 ft NGVD, June 17, 1988.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			APR		
04...	1036	3.89	05...	1326	2.38
DEC			JUN		
12...	1115	3.42	06...	1030	2.25
JAN			AUG		
31...	1325	3.05	01...	1035	3.10

PINELLAS COUNTY

WELL NUMBER.--280132082452802. ROMP TR 14-2 Tampa Well near Dunedin, FL.

LOCATION.--Lat 28°01'32", long 82°45'28", in SE¼NW¼ sec.25, T.28 S., R.15 E., Hydrologic Unit 03100207, 0.5 mi north of State Highway 580, and 2.0 mi northeast of Dunedin. Owner: Southwest Florida Water Management District.

AQUIFER.--Tampa Limestone of Miocene Age, Geologic Unit 122 TAMP.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 2 in., depth 218 ft, cased to 213 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 54.57 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.65 ft above land-surface datum.

REMARKS.--Well also sampled for water quality.

PERIOD OF RECORD.--April 1988 to current year (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.38 ft NGVD, Oct. 4, 1988; lowest measured, 3.48 ft NGVD, June 17, 1988.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			JUN		
04...	1014	6.38	06...	1000	4.65
JAN			AUG		
31...	1300	5.64	01...	1010	5.70
APR					
05...	1303	4.71			

WELL NUMBER.--280132082452803. ROMP TR 14-2 NRSD Well near Dunedin, FL.

LOCATION.--Lat 28°01'32", long 82°45'28", in SE¼NW¼ sec.25, T.28 S., R.15 E., Hydrologic Unit 03100207, 0.5 mi north of State Highway 580, and 2.0 mi northeast of Dunedin. Owner: Southwest Florida Water Management District.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water table well, diameter 6 in., depth 22 ft, cased to 18 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 54.50 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 2.22 ft above land-surface datum.

PERIOD OF RECORD.--October 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 53.87 ft NGVD, Sept. 8, 1988; lowest, 47.82 ft NGVD, May 28, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	50.24	49.59	50.81	49.96	49.99	49.83	48.93	48.44	47.94	49.16	48.66	51.17
10	49.98	49.38	50.54	49.83	49.78	49.55	48.80	48.30	48.51	48.82	49.16	50.44
15	49.79	49.21	50.89	49.70	49.59	49.36	48.73	48.19	48.32	48.56	49.26	50.00
20	49.61	49.10	50.48	49.68	49.49	49.22	48.78	48.03	48.61	48.48	49.18	49.74
25	49.46	51.86	50.30	50.67	49.39	49.18	48.61	47.91	49.15	49.07	49.01	50.69
EOM	49.32	51.22	50.11	50.21	49.35	49.05	48.52	48.02	49.22	48.98	49.01	50.21
MAX	50.38	53.58	51.47	51.26	50.17	49.89	49.03	48.55	49.22	49.28	49.33	51.17

CAL YR 1988 MAX 53.87
WTR YR 1989 MAX 53.58

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

PINELLAS COUNTY

WELL NUMBER.--280446082390701. East Lake Deep Well 17 near Tarpon Springs, FL.

LOCATION.--Lat 28°04'46", long 82°39'07", in SE¼NE¼ sec.1, T.28 S., R.16 E., Hydrologic Unit 03100206, 3.3 mi north of intersection State Highway 580 and Race Track Road, and 7.9 mi southeast of Tarpon Springs. Owner: U.S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 12 in., depth 305, cased to 57 ft.

INSTRUMENTATION.--Monthly measurement with steel tape.

DATUM.--Land-surface datum is 17.97 ft above National Geodetic Vertical Datum of 1929. Measuring point: Bottom of access hole in casing, 0.90 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--July to September 1977 (bimonthly); October 1977 to current year (monthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.00 ft NGVD, Oct. 4, 1979; lowest measured, 12.87 ft NGVD, June 7, 1985.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			APR		
12...	1116	16.55	11...	0900	15.39
NOV			MAY		
09...	0835	16.34	11...	0800	14.75
DEC			15...	0730	14.46
08...	1120	16.72	JUN		
JAN			14...	0718	14.54
05...	1015	16.17	JUL		
FEB			07...	0720	16.39
06...	0745	16.44	AUG		
MAR			07...	0830	16.44
08...	1045	16.22			

WELL NUMBER.--280457082420401. Brooker Creek Shallow Well near Oldsmar, FL.

LOCATION.--Lat 28°04'57", long 82°42'04", in NE¼NE¼ sec.4, T.28 S., R.16 E., Hydrologic Unit 03100206, on west side of County Road 77, 1.5 mi north of State Highway 584, and 4.0 mi northwest of Oldsmar. Owner: Unknown.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 90 ft, cased to 82 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 6.46 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of male adaptor, 3.52 ft above land-surface datum. Prior to June 16, 1976, top of casing, 3.50 ft above land-surface datum; June 16, 1976, to Oct. 22, 1981, top of casing, 0.80 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells. Well also sampled for water quality.

PERIOD OF RECORD.--December 1968 to current year (bimonthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.81 ft NGVD, Sept. 18, 1988; lowest measured, 3.54 ft NGVD, May 12, 1976.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
07...	1205	5.69	01...	1130	4.31
DEC			15...	0823	3.95
13...	1048	5.69	JUN		
FEB			14...	1045	4.27
06...	1030	5.46	AUG		
APR			07...	1120	5.19
11...	1145	4.72	SEP		
			11...	0948	5.81

PINELLAS COUNTY

WELL NUMBER.--280457082420402. Brooker Creek Well near Oldsmar, FL.

LOCATION.--Lat 28°04'57", long 82°42'04", in NE¼NE¼ sec.4, T.28 S., R.16 E., Hydrologic Unit 03100206, on west side of County Road 77, 1.5 mi north of State Highway 584, and 4.0 mi northwest of Oldsmar. Owner: U.S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 310 ft, cased to 300 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 6.46 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.62 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--January 1969 to February 1973 (bimonthly); March 1973 to current year (incomplete). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 9.80 ft NGVD estimated, Sept. 10, 1988; lowest, 5.17 ft NGVD, May 19, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.52	---	---	6.70	6.83	6.76	6.26	5.82	5.96	6.90	6.79	7.26
10	7.04	6.80	7.24	6.71	6.46	6.27	6.13	5.69	6.20	6.73	7.02	7.39
15	7.09	6.93	7.04	6.68	6.64	6.57	5.84	5.42	5.75	6.44	7.23	7.12
20	7.27	6.88	6.99	6.64	6.51	6.11	6.15	5.23	6.03	6.61	7.04	6.94
25	7.25	---	6.93	6.74	6.17	6.18	5.93	5.36	6.44	7.11	7.11	7.49
EOM	6.91	---	6.86	7.00	6.50	6.27	5.69	5.67	6.81	7.16	7.15	7.44
MAX	7.67	---	---	7.00	6.93	6.83	6.27	5.99	6.81	7.17	7.25	7.56

PINELLAS COUNTY

WELL NUMBER.--280511082405602. East Lake Shallow Well 8 near Oldsmar, FL.

LOCATION.--Lat 28°05'11", long 82°40'56", in SE¼SE¼ sec.34, T.27 S., R.16 E., Hydrologic Unit 03100206, 2.5 mi northeast of intersection State Highway 584 and East Lake Road, and 3.6 mi northwest of Oldsmar. Owner: U.S. Geological Survey.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 110 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 12.4 ft, cased to 7.4 ft.

INSTRUMENTATION.--Monthly measurement with steel tape.

DATUM.--Land-surface datum is 12.78 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1988, land-surface datum was considered to be 13.00 ft NGVD. See PERIOD OF RECORD. Measuring point: Top of casing, 1.80 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--May 1976 to February 1980 (semiannually); March to September 1980 (bimonthly); October 1980 to current year (monthly). Records of water levels prior to October 1979 are available in files of the Geological Survey. The figures of water level as elevation in feet, NGVD prior to Oct. 1, 1988, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction -0.22 ft. Revised records are in files of the Geological Survey. See DATUM.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.52 ft (corrected) NGVD, Aug. 9, 1985; lowest measured, 8.06 ft (corrected) NGVD, June 7, 1985.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
12...	1344	10.82	11...	1105	9.06
NOV			15...	0907	8.98
09...	1110	10.82	JUN		
DEC			14...	1240	9.28
08...	1253	11.64	JUL		
JAN			07...	1140	10.53
05...	1137	11.05	AUG		
FEB			07...	1215	10.87
06...	1130	11.35	SEP		
MAR			07...	1410	12.20
08...	1401	11.08	11...	1413	11.94
APR					
11...	1330	9.92			

PINELLAS COUNTY

WELL NUMBER.--280532082405702. East Lake Shallow Well 7 near Oldsmar, FL.

LOCATION.--Lat 28°05'32", long 82°40'57", in NE¼SE¼ sec.34, T.27 S., R.16 E., Hydrologic Unit 03100206, 2.8 mi northeast of intersection State Highway 584 and East Lake Road, and 3.9 mi northwest of Oldsmar. Owner: U.S. Geological Survey.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 110 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 12.3 ft, cased to 7.3 ft.

INSTRUMENTATION.--Monthly measurement with steel tape.

DATUM.--Land-surface datum is 13.82 ft (corrected) above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.10 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--September 1975 to February 1980 (semiannually); March to September 1980 (bimonthly); October 1980 to current year (monthly). Records of water levels prior to October 1979 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.93 ft (corrected) NGVD, Sept. 18, 1975; lowest measured, 8.29 ft (corrected) NGVD, June 7, 1985.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
12...	1351	10.37	11...	1115	9.65
NOV			15...	0915	9.66
09...	1121	10.16	JUN		
DEC			14...	1229	9.85
08...	1258	11.00	JUL		
JAN			07...	1219	10.32
05...	1145	10.41	AUG		
FEB			07...	1225	10.37
06...	1145	10.39	SEP		
MAR			07...	1419	10.82
08...	1349	10.21	11...	1420	10.55
APR					
11...	1345	9.87			

PINELLAS COUNTY

WELL NUMBER.--280546082390701. East Lake Deep Well 14 near Tarpon Springs, FL.

LOCATION.--Lat 28°05'46", long 82°39'07", in SE¼NE¼ sec.36, T.27 S., R.16 E., Hydrologic Unit 03100206, 4.3 mi north of intersection State Highway 580 and Race Track Road, and 7.2 mi southeast of Tarpon Springs. Owner: U.S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation well, diameter 12 in., depth 305 ft, cased to 57 ft.

INSTRUMENTATION.--Monthly measurement with steel tape.

DATUM.--Land-surface datum is 22.53 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of access hole in casing, 1.20 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--July 1977 to current year (monthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.40 ft NGVD, Aug. 27, 1980; lowest measured, 13.17 ft NGVD, June 7, 1985.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			APR		
12...	1052	17.23	11...	0915	15.32
NOV			MAY		
09...	0907	16.94	11...	0823	14.92
DEC			15...	0740	14.66
08...	1050	18.12	JUN		
JAN			14...	0837	14.69
05...	0948	17.10	JUL		
FEB			07...	0830	17.29
06...	0800	17.25	AUG		
MAR			07...	0900	17.17
08...	1145	17.11			

WELL NUMBER.--280556082405703. East Lake Shallow Well 4A near Oldsmar, FL.

LOCATION.--Lat 28°05'56", long 82°40'57", in NE¼NE¼ sec.34, T.27 S., R.16 E., Hydrologic Unit 03100206, 3.2 mi northeast of intersection State Highway 584 and East Lake Road, and 4.4 mi northwest of Oldsmar. Owner: U.S. Geological Survey.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 110 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 11.8 ft, cased to 7.8 ft.

INSTRUMENTATION.--Monthly measurement with steel tape.

DATUM.--Land-surface datum is 15.00 ft above National Geodetic Vertical Datum of 1929 (levels by Pinellas County). Measuring point: Top of casing, at land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--March 1985 to current year (monthly), incomplete.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.22 ft NGVD, Sept. 9, 1985; lowest measured, 9.20 ft NGVD, June 7, 1985.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
12...	1357	12.08	11...	1125	10.99
NOV			15...	0917	11.00
09...	1128	12.31	JUN		
DEC			14...	1255	11.36
08...	1305	12.48	JUL		
JAN			07...	1240	12.46
05...	1149	12.45	AUG		
FEB			07...	1231	12.34
06...	1200	12.16	SEP		
MAR			07...	1425	12.60
08...	1415	11.33	11...	1425	12.35
APR					
11...	1400	12.39			

PINELLAS COUNTY

WELL NUMBER.--280603082410902. East Lake Shallow Well 3 near Oldsmar, FL.

LOCATION.--Lat 28°06'03", long 82°41'09", in SE¼SE¼ sec.27, T.27 S., R.16 E., Hydrologic Unit 03100206, 3.1 mi northeast of intersection State Highway 584 and East Lake Road, and 4.6 mi northwest of Oldsmar. Owner: U.S. Geological Survey.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 110 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 9.4 ft, cased to 4.4 ft.

INSTRUMENTATION.--Monthly measurement with steel tape.

DATUM.--Land-surface datum is 13.00 ft above National Geodetic Vertical Datum of 1929 (levels by Pinellas County). Measuring point: Top of casing, 4.50 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--May 1976 to February 1980 (semiannually); March to September 1980 (bimonthly); October 1980 to current year (monthly). Records of water levels prior to October 1979 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.89 ft NGVD, Sept. 18, 1979; lowest measured, 6.58 ft NGVD, July 3, 1984.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
12...	1404	11.91	11...	1045	9.42
NOV			15...	0924	9.32
09...	1135	11.19	JUN		
DEC			14...	1310	9.37
08...	1311	12.46	JUL		
JAN			07...	1300	10.29
05...	1155	11.68	AUG		
FEB			07...	1145	10.82
06...	1215	11.83	SEP		
MAR			07...	1330	11.78
08...	1330	11.37	11...	1454	11.49
APR					
11...	1245	10.57			

PINELLAS COUNTY

WELL NUMBER.--280614082411601. East Lake Monitor M2 Deep Well near Tarpon Springs, FL.

LOCATION.--Lat 28°06'14", long 82°41'16", in SW¼SE¼ sec.27, T.27 S., R.16 E., Hydrologic Unit 03100206, 0.4 mi east of East Lake Road, 3.2 mi south of State Highway 582, and 5.2 mi southeast of Tarpon Springs. Owner: Pinellas County.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 538 ft, cased to 507 ft.

INSTRUMENTATION.--Monthly measurement with steel tape.

DATUM.--Land-surface datum is 14.83 ft (corrected) above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.29 ft above land-surface datum.

PERIOD OF RECORD.--January to September 1978 (bimonthly); October 1978 to current year (monthly), incomplete.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.63 ft (corrected) NGVD, Sept. 18, 1979; lowest measured, 7.62 ft NGVD, June 14, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
12...	1428	11.20	11...	1210	8.31
NOV			17...	0830	7.79
09...	1154	11.13	JUN		
DEC			14...	1319	7.62
08...	1320	10.01	JUL		
JAN			07...	1115	10.11
05...	1204	9.35	AUG		
FEB			07...	1245	10.66
06...	1230	9.94	SEP		
MAR			07...	1445	10.92
08...	1430	9.60	11...	1509	11.10
APR					
11...	1415	8.86			

PINELLAS COUNTY

WELL NUMBER.--280614082411703. East Lake Shallow Well 2A near Oldsmar, FL.

LOCATION.--Lat 28°06'14", long 82°41'17", in NW¼SE¼ sec.27, T.27 S., R.16 E., Hydrologic Unit 03100206, 3.2 mi northeast of intersection State Highway 584 and East Lake Road, and 4.8 mi northwest of Oldsmar. Owner: U.S. Geological Surevey.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 110 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 9.7 ft, cased to 6.7 ft.

INSTRUMENTATION.--Monthly measurement with steel tape.

DATUM.--Land-surface datum is 13.65 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1988, land-surface dAtum was considered to be 14.50 ft NGVD. See PERIOD OF RECORD. Measuring point: Top of casing, 2.50 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--March 1985 to current year (monthly). The figures of water level as elevation in feet, NGVD prior to Oct. 1, 1988, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of -0.85 ft. Revised records are in files of the Geological Survey. See DATUM.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.31 ft (corrected) NGVD, Sept. 19, 1988; lowest measured, 8.61 ft (corrected) NGVD, June 7, 1985.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
12...	1435	12.15	11...	1215	9.63
NOV			JUN		
09...	1200	11.80	14...	1325	9.79
DEC			JUL		
08...	1325	12.39	07...	1100	11.34
JAN			AUG		
05...	1209	11.96	07...	1255	11.54
FEB			SEP		
06...	1245	12.01	07...	1455	12.03
MAR			11...	1516	11.79
08...	1445	11.85			
APR					
11...	1425	10.96			

PINELLAS COUNTY

WELL NUMBER.--280617082405702. East Lake Shallow Well 5 near Oldsmar, FL.

LOCATION.--Lat 28°06'17", long 82°40'57", in NW¼SW¼ sec.26, T.27 S., R.16 E., Hydrologic Unit 03100206, 3.5 mi northeast of intersection State Highway 584 and East Lake Road, and 4.7 mi northwest of Oldsmar. Owner: U.S. Geological Survey.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 110 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 12 ft, cased to 9 ft.

INSTRUMENTATION.--Monthly measurement with steel tape.

DATUM.--Land-surface datum is 14.12 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1988, land-surface datum was considered to be 13.00 ft NGVD. See PERIOD OF RECORD. Measuring point: Top of casing, 3.10 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--May 1976 to February 1980 (semiannually); March to September 1980 (bimonthly); October 1980 to current year (monthly), incomplete. Records of water levels prior to October 1979 are available in files of the Geological Survey. The figures of water level as elevation in feet, NGVD prior to Oct. 1, 1988, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of +1.12 ft. Revised records are in files of the Geological Survey. See DATUM.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.54 ft (corrected) NGVD, Sept. 7, 1989; lowest measured, 8.82 ft (corrected) NGVD, June 7, 1985.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
12...	1325	12.50	11...	1055	10.62
NOV			15...	0853	10.49
09...	1058	12.19	JUN		
DEC			14...	1210	10.79
08...	1240	12.93	JUL		
JAN			07...	1200	12.04
05...	1127	12.48	AUG		
FEB			07...	1200	12.58
06...	1115	12.64	SEP		
MAR			07...	1350	13.07
08...	1340	12.36	11...	1435	12.93
APR					
11...	1315	11.71			

PINELLAS COUNTY

WELL NUMBER.--280631082411702. East Lake Shallow Well 1 near Oldsmar, FL.

LOCATION.--Lat 28°06'31", long 82°41'17", in SW¼NE¼ sec.27, T.27 S., R.16 E., Hydrologic Unit 03100206, 3.6 mi northeast of intersection State Highway 584 and East Lake Road, and 5.1 mi northwest of Oldsmar. Owner: U.S. Geological Survey.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 110 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 12 ft, cased to 10 ft.

INSTRUMENTATION.--Monthly measurement with steel tape.

DATUM.--Land-surface datum is 14.98 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1988, land-surface datum was considered to be 13.60 ft NGVD. See PERIOD OF RECORD. Measuring point: Top of coupling, 1.40 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--May 1976 to February 1980 (semiannually); March to September 1980 (bimonthly); October 1980 to current year (monthly). Records of water levels prior to October 1979 are available in files of the Geological Survey. The figures of water level as elevation in feet, NGVD prior to Oct. 1, 1988, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of +1.38 ft. Revised records are in files of the Geological Survey. See DATUM.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.70 ft (corrected) NGVD, Sept. 19, 1988; lowest measured, 8.81 ft (corrected) NGVD, June 7, 1985.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
12...	1443	12.41	11...	1225	10.24
NOV			15...	1005	10.08
09...	1205	11.96	JUN		
DEC			14...	1339	10.29
08...	1334	12.89	JUL		
JAN			07...	1055	11.58
05...	1216	12.42	AUG		
FEB			07...	1300	10.91
06...	1300	12.47	SEP		
MAR			07...	1515	12.36
08...	1450	12.27	11...	1525	12.08
APR					
11...	1435	11.49			

PINELLAS COUNTY

WELL NUMBER.--280631082454601. N. W. Pinellas Injection Monitor Shallow Well near Tarpon Springs, FL.

LOCATION.--Lat 28°05'31", long 82°45'46", in SW¼NW¼ sec.25, T.27 S., R.15 E., Hydrologic Unit 03100207, 0.4 mi east of Alternate U. S. Highway 19, and 2.6 mi south of Tarpon Springs. Owner: U.S. Geological Survey.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 12 ft, cased to 8 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 10.98 ft (corrected) above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.00 ft (corrected) above land-surface datum. Prior to Sept. 23, 1977, top of shelter floor, 3.50 ft above land-surface datum; Sept. 23, 1977, to Apr. 8, 1988, top of flange, 3.40 ft above land-surface datum.

REMARKS.--Water levels affected by spray irrigation of area around well. Land surface changed by construction. Extremes may have been exceeded during periods of missing record.

PERIOD OF RECORD.--May 1974 to September 1987, incomplete; October 1987 to current year (bimonthly). Records of water levels prior to October 1975 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.70 ft NGVD, Mar. 8, 1989; lowest daily maximum water level, 1.32 ft NGVD, June 30, 1977.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
03...	1214	9.01	19...	1548	3.07
DEC			JUN		
07...	1315	12.07	07...	1200	2.74
FEB			AUG		
01...	1400	12.32	02...	1020	5.13
MAR			SEP		
08...	1100	12.70	12...	0935	5.06
APR					
05...	1142	8.95			

WELL NUMBER.--280632082455001. N. W. Pinellas Injection Monitor Deep Well near Tarpon Springs, FL.

LOCATION.--Lat 28°06'32", long 82°45'50", in SW¼NW¼ sec.25, T.27 S., R.15 E., Hydrologic Unit 03100207, 0.4 mi east of Alternate U. S. Highway 19, and 2.6 mi south of Tarpon Springs. Owner: U.S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 96 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 17.00 ft (corrected) above National Geodetic Vertical Datum of 1929. Measuring point: Top of shelter floor, 0.60 ft (corrected) above land-surface datum.

REMARKS.--Land surface changed by construction. Well also sampled for water quality.

PERIOD OF RECORD.--April 1976 to September 1988; October 1988 to September 1989 (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 6.52 ft NGVD, Sept. 11, 1988; lowest, 1.20 ft NGVD, Apr. 11, 1977.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
03...	1141	4.13	01...	1325	2.18
DEC			19...	1603	1.80
07...	1253	3.86	JUN		
FEB			07...	1150	2.15
01...	1325	3.11	AUG		
MAR			02...	1009	3.23
09...	1100	3.03	SEP		
APR			12...	0924	3.79
05...	1120	2.54			

PINELLAS COUNTY

WELL NUMBER.--280734082442101. ROMP TR 15-3 Deep Well near Tarpon Springs, FL.

LOCATION.--Lat 28°07'34", long 82°44'21", in NW¼NE¼ sec.19, T.27 S., R.16 E., Hydrologic Unit 03100207, 400 ft east of U. S. Highway 19, and 1.4 mi south of Tarpon Springs. Owner: Southwest Florida Water Management District.

AQUIFER.--Tampa Limestone of Miocene Age, Geologic Unit 122 TAMP.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 150 ft, cased to 147 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 25.02 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.40 ft above land-surface datum.

REMARKS.--Water levels affected by tidal fluctuations. Well also sampled for water quality.

PERIOD OF RECORD.--April 1978 to current year (incomplete).

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 6.80 ft NGVD estimated, Sept. 9, 1988; lowest, 2.88 ft NGVD, June 10, 11, 1985.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	5.01	5.22	4.80	4.89	4.70	4.68	4.69	4.75	4.39	4.62	4.66	4.86
10	4.92	4.83	5.03	4.86	4.25	4.33	4.60	4.44	3.91	4.28	4.64	4.95
15	4.84	4.64	4.62	4.63	4.34	4.47	4.32	3.92	4.06	4.41	5.08	5.20
20	4.96	4.89	4.79	4.50	4.70	4.37	4.44	4.15	4.54	4.82	4.80	4.84
25	5.09	5.32	4.77	4.46	4.17	4.40	4.40	3.96	4.33	4.65	4.84	5.03
EOM	4.76	4.90	4.61	4.51	4.54	4.58	4.12	3.97	4.65	4.88	4.99	5.08
MAX	---	5.54	5.18	4.98	4.90	4.80	4.89	4.75	4.77	4.88	5.08	5.24

WELL NUMBER.--280747082452001. ROMP TR 15-2 Deep Well near Tarpon Springs, FL.

LOCATION.--Lat 28°07'47", long 82°45'20", in NE¼NW¼ sec.24, T.27 S., R.15 E., Hydrologic Unit 03100207, 30 ft north of Curlew Place, 400 ft east of U. S. Alternate Highway 19, and 1.1 mi south of Tarpon Springs. Owner: Southwest Florida Water Management District.

AQUIFER.--Tampa Limestone of Miocene Age, Geologic Unit 122 TAMP.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 8 in., depth 54 ft, cased to 50 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 12.98 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of shelter floor, 3.30 ft above land-surface datum.

REMARKS.--Well also sampled for water quality.

PERIOD OF RECORD.--April 1978 to September 1981; October 1981 to current year (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 4.67 ft NGVD, Sept. 29, 30, 1979; lowest, 2.04 ft NGVD, May 19, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
07...	1445	3.65	01...	1250	2.41
DEC			19...	1642	2.04
14...	1415	2.99	AUG		
FEB			04...	0835	3.05
03...	1320	2.49	SEP		
APR			12...	0851	3.51
03...	1245	2.32			

PINELLAS COUNTY

WELL NUMBER.--280753082465201. ROMP TR 15-1 Deep Well near Tarpon Springs, FL.

LOCATION.--Lat 28°07'53", long 82°46'52", in NW¼SW¼ sec.14, T.27 S., R.15 E., Hydrologic Unit 03100207, 70 ft south of Castleworks Lane, 200 ft east of Florida Avenue, and 1.7 mi southwest of Tarpon Springs. Owner: Southwest Florida Water Management District.

AQUIFER.--Tampa Limestone of Miocene Age, Geologic Unit 122 TAMP.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 8 in., depth 87 ft, cased to 68 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 8.15 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 2.40 ft above land-surface datum.

REMARKS.--Water levels affected by tidal fluctuations. Well also sampled for water quality.

PERIOD OF RECORD.--April 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 5.08 ft NGVD, Sept. 9, 1988; lowest, 1.44 ft NGVD, June 11, 1985.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	2.95	2.84	2.67	2.45	2.35	2.39	2.12	2.17	2.19	2.84	2.67	2.64
10	2.74	2.50	2.83	2.42	1.95	2.00	2.12	2.13	2.00	2.49	2.67	2.79
15	2.64	2.34	2.49	2.27	2.04	2.22	2.06	1.79	2.05	2.49	2.85	2.82
20	2.67	2.50	2.56	2.20	2.18	2.11	2.05	1.85	2.31	2.62	2.59	2.56
25	2.79	3.39	2.52	2.19	1.78	2.09	2.02	1.84	2.56	2.90	2.60	2.84
EOM	2.46	2.93	2.36	2.30	2.12	2.21	2.01	1.81	2.75	2.94	2.65	2.90
MAX	3.16	3.53	2.93	2.49	2.38	2.39	2.17	2.24	2.75	3.02	2.92	2.93

CAL YR 1988 MAX 5.08
WTR YR 1989 MAX 3.53

WELL NUMBER.--280852082414301. North Lake Tarpon Well near Tarpon Springs, FL.

LOCATION.--Lat 28°08'52", long 82°41'43", in NW¼SW¼ sec.10, T.27 S., R.16 E., Hydrologic Unit 03100207, at junction State Highway 582 and County Road 77, and 3.5 mi east of Tarpon Springs. Owner: Unknown.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 8 in., depth 780 ft, cased to 758 ft.

INSTRUMENTATION.--Monthly measurement with steel tape.

DATUM.--Land-surface datum is 47.43 ft (corrected) above National Geodetic Vertical Datum of 1929. Measuring point: Top of shelter floor, 2.70 ft (corrected) above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells. Well also sampled for water quality.

PERIOD OF RECORD.--March 1967 to current year (monthly), incomplete. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.21 ft NGVD, Sept. 15, 1986; lowest measured, 7.93 ft NGVD, June 11, 1985.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			APR		
03...	1000	12.46	06...	1510	10.11
NOV			11...	1505	10.11
07...	1353	12.44	MAY		
DEC			11...	1315	9.59
07...	0850	12.51	15...	1345	9.38
JAN			JUN		
05...	1233	11.75	14...	1420	10.17
FEB			JUL		
10...	0800	11.77	07...	1030	11.40
MAR			AUG		
08...	1515	11.42	07...	1330	11.23
			SEP		
			11...	1450	11.56

PINELLAS COUNTY

WELL NUMBER.--280907082424801. Tarpon Road Deep Well near Tarpon Springs, FL.

LOCATION.--Lat 28°09'07", long 82°42'48", in SW¼NW¼ sec.9, T.27 S., R.16 E., Hydrologic Unit 03100207, 25 ft north of State Highway 582, and 2.6 mi east of Tarpon Springs. Owner: U. S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 305 ft, cased to 205 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 21.77 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.23 ft above land-surface datum.

REMARKS.--Water levels affected by tidal fluctuations. Well also sampled for water quality.

PERIOD OF RECORD.--July 1965 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 13.06 ft NGVD, Sept. 15, 1971; lowest, 8.20 ft NGVD, May 17, 1985.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	11.27	10.87	10.91	10.25	10.22	10.15	9.40	9.07	8.72	9.66	9.71	9.79
10	10.78	10.49	10.95	10.22	9.95	9.86	9.31	8.83	9.27	9.45	9.69	10.13
15	10.73	10.25	10.82	10.22	9.88	9.81	9.47	8.57	8.74	9.39	9.64	9.90
20	10.64	10.34	10.72	10.07	9.84	9.56	9.41	8.61	9.15	9.52	9.67	9.71
25	10.76	11.38	10.50	10.37	9.78	9.72	8.89	8.35	9.62	9.89	9.33	10.25
EOM	10.29	11.17	10.38	10.25	9.86	9.73	9.14	8.78	9.88	9.86	9.64	10.16
MAX	11.37	11.57	11.12	10.45	10.23	10.16	9.73	9.48	9.88	9.96	9.88	10.32

CAL YR 1988 MAX 12.98
WTR YR 1989 MAX 11.57

WELL NUMBER.--280907082424802. Tarpon Road Shallow Well near Tarpon Springs, FL.

LOCATION.--Lat 28°09'07", long 82°42'48", in SW¼NW¼ sec.9, T.27 S., R.16 E., Hydrologic Unit 03100207, 25 ft north of State Highway 582, and 2.6 mi east of Tarpon Springs. Owner: U.S. Geological Survey.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 1.25 in., depth 12 ft, cased to 10 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 21.48 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.00 ft above land-surface datum.

PERIOD OF RECORD.--November 1965 to current year (bimonthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.93 ft NGVD, Sept. 15, 1971; well observed dry at times some years.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
03...	1110	14.07	15...	1340	10.55
DEC			AUG		
07...	0949	13.53	02...	0930	10.39
FEB			SEP		
03...	1249	12.66	11...	1511	10.73
APR					
03...	1430	11.36			

PINELLAS COUNTY

WELL NUMBER.--280908082394601. Eldridge-Wilde Monitor Well 5 near Tarpon Springs, FL.

LOCATION.--Lat 28°09'08", long 82°39'46", in SW¼NW¼ sec.12, T.27 S., R.16 E., Hydrologic Unit 03100207, 0.6 mi north of State Highway 582, and 5.7 mi east of Tarpon Springs. Owner: Pinellas County.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 229 ft, cased to 58 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 29.00 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.40 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells. Extremes may have been exceeded during periods of missing record.

PERIOD OF RECORD.--December 1973 to September 1989 (discontinued). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 22.99 ft NGVD, Apr. 3, 1987; lowest, 11.19 ft below NGVD, Jan. 9, 1975.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	5.01	7.63	11.10	3.77	6.39	4.34	4.83	.03	6.23	6.29	9.38	5.13
10	2.03	6.17	12.70	7.82	7.04	6.62	4.77	1.34	6.16	4.63	3.18	1.77
15	6.16	5.85	17.34	5.66	4.45	10.74	2.24	.15	6.12	7.50	3.49	1.90
20	5.67	6.16	5.82	2.81	4.36	4.48	2.24	-2.09	5.86	6.39	5.02	5.50
25	1.82	10.51	3.85	4.13	4.47	4.11	-.21	2.83	11.45	6.36	3.15	3.39
EOM	4.56	12.63	2.48	6.83	3.64	6.14	1.79	3.63	12.20	6.28	1.93	1.89
MAX	13.04	15.09	17.34	9.24	13.94	12.94	6.06	7.21	12.20	13.10	10.20	9.79

CAL YR 1988 MAX 19.95
WTR YR 1989 MAX 17.34

WELL NUMBER.--280946082391301. Eldridge-Wilde Well 113A near Tarpon Springs, FL.

LOCATION.--Lat 28°09'46", long 82°39'13", in NE¼SE¼ sec.1, T.27 S., R.16 E., Hydrologic Unit 03100207, 1.2 mi north of State Highway 582, and 6.4 mi east of Tarpon Springs. Owner: Pinellas County.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 12 in., depth 114 ft, cased to 58 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 34.34 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 8 in. extension, 1.70 ft above land-surface datum. Prior to Mar. 24, 1977, top of casing at land-surface datum.

REMARKS.--Water levels affected by pumping of nearby wells. Extremes may have been exceeded during periods of missing record.

PERIOD OF RECORD.--November 1972 to current year, incomplete. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 24.35 ft NGVD, Apr. 6, 1987; lowest, 2.59 ft below NGVD, June 15, 1973.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	11.85	7.52	15.86	6.96	7.85	5.18	8.64	4.59	7.49	7.29	8.62	6.65
10	9.44	5.08	16.71	6.29	10.31	6.76	8.72	4.85	8.59	6.94	5.82	5.54
15	10.60	4.19	17.46	4.68	5.01	9.00	8.31	4.80	4.20	8.92	5.07	3.18
20	9.94	8.05	15.00	6.85	3.22	3.65	9.53	2.00	6.00	5.73	4.83	3.51
25	5.88	8.87	9.05	9.35	4.50	3.84	3.10	5.82	9.53	10.67	4.93	6.12
EOM	6.31	11.08	6.91	10.30	4.14	5.60	6.23	10.38	9.95	8.09	1.30	e4.80
MAX	13.39	16.61	18.38	14.87	16.09	13.89	10.26	10.38	13.38	12.92	11.23	9.24

CAL YR 1988 MAX 19.58
WTR YR 1989 MAX 18.38

e Estimated

PINELLAS COUNTY

WELL NUMBER.--281022082400201. Eldridge-Wilde Deep Well N3 near Tarpon Springs, FL.

LOCATION.--Lat 28°10'22", long 82°40'02", in NW¼NW¼ sec.1, T.27 S., R.16 E., Hydrologic Unit 03100207, 2.4 mi northeast of intersection State Highway 582 and East Lake Road, and 4.8 mi east of Tarpon Springs. Owner: Unknown.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 350 ft, cased to 100 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 28.78 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.10 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--July 1977 to current year. Records of water levels prior to October 1977 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 23.47 ft NGVD, Apr. 3, 1987; lowest, 7.91 ft NGVD, June 18, 1988.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	16.20	13.20	17.36	13.89	13.35	11.98	11.00	9.98	10.48	e12.20	11.33	9.81
10	14.48	12.33	18.24	13.57	12.98	12.96	12.17	9.71	11.09	e11.60	10.21	9.65
15	14.88	11.83	18.09	13.16	11.60	11.95	11.49	9.21	10.02	12.23	10.60	9.53
20	14.18	12.22	16.65	13.08	11.16	10.89	11.77	8.56	10.92	10.74	11.26	10.19
25	12.73	15.42	15.13	15.05	11.90	10.89	10.04	9.64	12.81	12.77	9.86	10.75
EOM	12.15	17.31	13.86	13.84	11.43	11.91	10.72	11.57	13.12	11.64	8.67	9.93
MAX	17.01	17.90	18.91	15.57	16.14	14.60	12.17	11.57	13.26	14.10	11.84	12.47

CAL YR 1988 MAX 20.79
WTR YR 1989 MAX 18.91

e Estimated

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1988 TO SEPTEMBER 1989

STATION NUMBER	STATION NAME	LAT-I-TUDE	LONG-I-TUDE	DATE	ELEV-ATION ABOVE NGVD (FEET)
	PINELLAS COUNTY				
273655082440901	FT DE SOTO PARK NR PASS-A-GRILLE BEACH	27 36 55 N	082 44 09 W	05-17-89	8.12
				09-13-89	11.91
274259082410205	WELL NO. B5 SW ST PETE MON 396 NR GULFPORT	27 42 59 N	082 41 02 W	05-17-89	12.08
				09-12-89	17.63
274323082374301	COQUINA KEY ARMS APT NR ST PETERSBURG	27 43 23 N	082 37 43 W	05-17-89	6.59
				09-12-89	9.96
274614082425205	WELL NUMBER B5 BEAR CREEK INJ MONITOR 300	27 46 14 N	082 42 52 W	05-16-89	7.17
				09-12-89	11.44
274624082383701	WELL 7462382437 MIRROR LK CTY WELL NR GULFPORT	27 46 24 N	082 38 37 W	05-17-89	4.83
				09-17-89	9.73
274754082473201	F. JOHNSON WELL AT MADERIA BEACH, FL	27 47 54 N	082 47 32 W	09-12-89	8.41
274848082461201	WARVETSMEMPKDPWELL 1 NR MADEIRA BEACH	27 48 48 N	082 46 12 W	05-17-89	2.61
274859082390701	ROBERTS COMM CTR DP NR LEALMAN	27 48 59 N	082 39 07 W	05-17-89	4.50
				09-12-89	8.86
274904082423601	NO. 749242344 114 NR LEALMAN	27 49 04 N	082 42 36 W	05-17-89	5.70
				09-13-89	10.46
274935082370205	NORTH EAST B9	27 49 35 N	082 37 02 W	05-17-89	3.76
				09-13-89	6.66
274937082480801	TIDES GOLF DP WELL NR PINELLAS PARK	27 49 37 N	082 48 08 W	09-12-89	8.00
275022082494001	HOLLY DP WELL WELL NR PINELLAS PARK	27 50 22 N	082 49 40 W	05-16-89	4.98
275121082412601	TAMERAK DP WELL NR PINELLAS PARK	27 51 21 N	082 41 26 W	09-13-89	7.66
275126082480201	KRAMER DP WELL NR SEMINOLE	27 51 26 N	082 48 02 W	05-16-89	8.58
				09-12-89	11.65
275137082382701	KOGER DEEP AT ST. PETE, FL	27 51 37 N	082 38 27 W	05-16-89	1.89
				09-13-89	4.36
275138082450301	BARDMOOR DP WELL NR PINELLAS PARK	27 51 38 N	082 45 03 W	05-16-89	5.51
				09-12-89	9.30
275241082503901	MK C1 NR INDIAN ROCKS BEACH	27 52 41 N	082 50 39 W	05-16-89	4.62
				09-12-89	7.11
275430082460701	E. BAY COUNTRY CLUB NR LARGO,FL 211 30S15E02	27 54 30 N	082 46 07 W	05-16-89	5.12
				09-13-89	7.52
275521082444301	ST CATHERINE DP WELL NR HIGH POINT	27 55 21 N	082 44 43 W	05-16-89	3.46
				09-12-89	6.17
275604082431701	COVE CAY DP WELL NR HIGH POINT	27 56 04 N	082 43 17 W	05-15-89	3.31
				09-11-89	6.36
275605082480902	BELLEAIR #6 SH AT BELLEAIR,FL	27 56 05 N	082 48 09 W	05-15-89	40.97
				09-11-89	40.69
275631082435301	CLE-DUN S. WELL 35 NR LARGO,FL 756243133 424	27 56 31 N	082 43 53 W	05-15-89	8.73
				09-11-89	9.33
275736082451201	29S15E13 SHALLOW WELL 32 AT CLEARWATER,FLA	27 57 36 N	082 45 12 W	09-11-89	69.13
275739082462601	CLEARWATER PROD. WELL 18 AT CLEARWATER,FL 143	27 57 39 N	082 46 26 W	05-15-89	13.30
275740082461701	CLEARWATER PROD WELL #8 AT CLEARWATER,FL	27 57 40 N	082 46 17 W	05-15-89	4.68
				09-11-89	7.50
275753082435301	CLE-DUN D. WELL 31 NR CLEARWATER,FL	27 57 53 N	082 43 53 W	05-15-89	7.64
				09-11-89	9.65
275818082464601	CLW COUNTRY CLUB #4 AT CLEARWATER	27 58 18 N	082 46 46 W	05-15-89	0.92
				09-11-89	3.95
275819082453901	CLEARWATER PROD WELL #54 AT CLEARWATER,FL 314	27 58 19 N	082 45 39 W	05-15-89	4.81
				09-11-89	7.39
275819082453902	CLW 54 SH AT CLEARWATER FL	27 58 19 N	082 45 39 W	05-15-89	68.00
				09-11-89	67.98

STATION NUMBER	STATION NAME	LAT-I-TUDE	LONG-I-TUDE	DATE	ELEV-ATION ABOVE NGVD (FEET)
	PINELLAS COUNTY				
275829082472502	CLW 37 SH AT CLEARWATER,FL	27 58 29 N	082 47 25 W	05-15-89	17.73
				09-11-89	19.42
275834082451801	CLEARWATER PROD WELL #48 AT CLEARWATER,FL 144	27 58 34 N	082 45 18 W	09-11-89	8.90
275842082430301	MISSION HILLS NR SAFETY HARB, FL 241 29S16E08	27 58 42 N	082 43 03 W	05-15-89	10.44
				09-11-89	12.16
275920082452001	WELL 66A NEAR DUNEDIN , FL	27 59 20 N	082 45 20 W	05-15-89	4.82
				09-11-89	7.16
275925082421001	CLE-DUN S. WELL 25 AT SAFETY HARBOR, FL	27 59 25 N	082 42 10 W	05-15-89	38.88
				09-11-89	40.26
275925082434501	T29SR16E05 SH. WELL 26 NR SAFETY HARBOR,FLA	27 59 25 N	082 43 45 W	05-15-89	72.82
				09-11-89	73.49
275925082451601	CLEARWATER 66 HERCULES ST	27 59 25 N	082 45 16 W	05-15-89	5.53
				09-11-89	7.73
275949082442401	SYL ABBEY DP WELL #3 NR SAFETY HARBOR	27 59 49 N	082 44 24 W	09-11-89	9.88
280004082394201	HIGGINS NORTH DEEP NR OLDSMAR,FL	28 00 04 N	082 39 42 W	05-15-89	-1.30
				09-11-89	0.35
280018082425301	CLEARWATER PROD WELL #68 AT CLEARWATER,FL	28 00 18 N	082 42 53 W	05-15-89	4.30
				09-11-89	6.81
280028082405101	PHILIPPE PARK WELL NR SAFETY HARBOR,FL	28 00 28 N	082 40 51 W	05-15-89	-1.09
				09-11-89	0.01
280041082443401	CLEARWATER PROD WELL #56 AT CLEARWATER,FL	28 00 41 N	082 44 34 W	09-11-89	7.90
280041082443402	28S16E30	28 00 41 N	082 44 34 W	05-15-89	68.77
				09-11-89	69.47
280045082472201	CLE-DUN D WELL 1 AT DUN. 800247214 344 28S15E27	28 00 45 N	082 47 22 W	09-11-89	-2.04
280051082470201	CLE-DUN D WELL 3 AT DUN. 800247224 442 28S15E27	28 00 51 N	082 47 02 W	09-11-89	3.02
280052082442401	CLEARWATER PROD WELL #57 AT CLEARWATER,FL	28 00 52 N	082 44 24 W	05-15-89	4.95
				09-11-89	8.36
280059082464901	CLE-DUN S. WELL 21 NR DUNEDIN, FL 800246112 424	28 00 59 N	082 46 49 W	05-15-89	14.80
				09-11-89	14.71
280101082442901	CLEARWATER PROD WELL #63 AT CLEARWATER,FL	28 01 01 N	082 44 29 W	09-11-89	8.22
280103082444101	CLEARWATER PROD WELL #64 AT CLEARWATER,FL	28 01 03 N	082 44 41 W	05-15-89	2.35
				09-11-89	5.45
280104082463101	CLE-DUN D. WELL 20 AT DUNEDIN,FL 801246344 321	28 01 04 N	082 46 31 W	05-15-89	4.05
				09-11-89	6.54
280105082423201	USGS S C-32 321 28S16E28 NR OLDSMAR	28 01 05 N	082 42 32 W	05-15-89	44.37
				09-11-89	47.58
280107082433801	FOREST SER DP WELL NR DUNEDIN	28 01 07 N	082 43 38 W	05-15-89	4.48
				09-11-89	7.57
280107082460401	CLE-DUN S. WELL 18 AT DUN., FL 412 801246444	28 01 07 N	082 46 04 W	05-15-89	25.24
				09-11-89	27.36
280122082471101	CLE-DUN D. WELL 22 AT DUNEDIN, FL	28 01 22 N	082 47 11 W	05-15-89	1.81
				09-11-89	3.72
280123082423402	C-30A 123	28 01 23 N	082 42 34 W	05-15-89	55.03
				09-11-89	57.71
280124082454601	28S15E25 DUNEDIN 13 113	28 01 24 N	082 45 46 W	09-11-89	52.90
280126082453301	CLE-DUN D WELL 15 NR DUNEDIN	28 01 26 N	082 45 33 W	09-11-89	3.09
280129082445501	SWFWMD 6" TEST WELL #1 AT DUNEDIN , FL	28 01 29 N	082 44 55 W	05-15-89	5.32
				09-11-89	8.09
280134082454801	DUNEDIN #10A AT DUNEDIN	28 01 34 N	082 45 48 W	05-15-89	3.39
				09-11-89	7.24
280227082453501	DUNEDIN #14 AT DUNEDIN	28 02 27 N	082 45 35 W	09-11-89	7.21

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1988 TO SEPTEMBER 1989

STATION NUMBER	STATION NAME	LAT-I-TUDE	LONG-I-TUDE	DATE	ELEV-ATION ABOVE NGVD (FEET)
	PINELLAS COUNTY				
280228082465001	CLE-DUN D. WELL 11 NR DUNEDIN, FL	28 02 28 N	082 46 50 W	05-15-89	3.54
				05-16-89	2.99
				09-11-89	5.30
				09-12-89	4.81
280229082451801	CLE-DUN D WELL 11 NR DUNEDIN 433 28S15E13	28 02 29 N	082 45 18 W	05-15-89	4.23
				09-11-89	7.34
280254082441602	CLE-DUN D. WELL 17 NR DUN., FL 802244212A 411	28 02 54 N	082 44 16 W	05-15-89	7.70
				05-16-89	7.56
				09-11-89	9.50
				09-12-89	9.36
280457082420403	BROOKER CREEK SH. NR CR 77 1.5 Mi N OF SR 584	28 04 57 N	082 42 04 W	05-15-89	0.11
				09-11-89	3.96
280603082410901	E. LAKE WF D. WELL 3 NR OLDSMAR, FL	28 06 03 N	082 41 09 W	05-15-89	7.85
280614082411602	EL-143 SH NR OLDSMAR	28 06 14 N	082 41 16 W	05-15-89	9.84
280614082411701	E. LAKE WF D. WELL 2 NR OLDSMAR,FL	28 06 14 N	082 41 17 W	05-15-89	7.42
280617082405701	E. LAKE WF D. WELL 5 NR OLDSMAR,FL	28 06 17 N	082 40 57 W	05-15-89	8.20
280629082414101	WELL 806 241 2941	28 06 29 N	082 41 41 W	05-15-89	10.64
280843082390401	ELDR. WILDE WELL B N TARPON SGS, FLA.	28 08 43 N	082 39 04 W	05-15-89	9.41
280843082390402	ELDR WILDE SH 13	28 08 43 N	082 39 04 W	05-15-89	15.82
				09-11-89	16.62
280844082385501	WELL 8082384455	28 08 44 N	082 38 55 W	05-15-89	-0.61
				09-11-89	1.27
280844082393101	WELL 8082394431	28 08 44 N	082 39 31 W	05-15-89	7.15
280851082401301	PINELLAS D. WELL 2A NR. TARPON SPR	28 08 51 N	082 40 13 W	05-15-89	2.29
				09-11-89	4.59
280852082390601	ELDR. WILDE WELL 12	28 08 52 N	082 39 06 W	05-15-89	7.16
				09-11-89	7.99
280852082392401	PINELLAS WELL 8S NR TARPON SGS	28 08 52 N	082 39 24 W	05-15-89	7.01
				09-11-89	8.13
280852082392801	USGS S. WELL EW-5	28 08 52 N	082 39 28 W	05-15-89	16.09
				09-11-89	15.19
280855082402601	ELDR WILDE WF D. WELL 023 NR T. SPGS.	28 08 55 N	082 40 26 W	05-15-89	2.49
				09-11-89	3.75
280856082401201	ELDRIDGE WILDE 2S	28 08 56 N	082 40 12 W	05-15-89	2.64
				09-11-89	4.42
280857082393101	WELL 8082395731	28 08 57 N	082 39 31 W	05-15-89	4.09
				09-11-89	4.92
280859082402302	ELDR WILDE WF S. WELL 3 SO. NR TARPON SGS.	28 08 59 N	082 40 23 W	05-15-89	19.53
				09-11-89	23.21
280902082391001	ELDR WILDE WELL 11A NR TARPON SGS, FLA.	28 09 02 N	082 39 10 W	05-15-89	6.85
				09-11-89	7.68
280902082391601	ELDR WILDE WELL 8 NR TARPON SGS, FLA.	28 09 02 N	082 39 16 W	05-15-89	6.05
				09-11-89	6.73
280902082395201	USGS S. WELL 4A NR TARPON SGS, FLA.	28 09 02 N	082 39 52 W	05-15-89	21.57
				09-11-89	18.46
280904082390601	ELDR WILDE D WELL 11	28 09 04 N	082 39 06 W	05-15-89	7.16
				09-11-89	7.94
280904082390602	ELDRIDGE-WILDE S. WELL 11 NR TARPON SGS, FLA	28 09 04 N	082 39 06 W	05-15-89	16.12
				09-11-89	14.47
280906082394001	PINELLAS WELL 5 NR TARPON SGS, FLA.	28 09 06 N	082 39 40 W	05-15-89	-0.67
				09-11-89	1.10
280907082393901	PINELLAS WELL 5B NR TARPON SGS, FLA.	28 09 07 N	082 39 39 W	05-15-89	-0.63

STATION NUMBER	STATION NAME	LAT-I-TUDE	LONG-I-TUDE	DATE	ELEV-ATION ABOVE NGVD (FEET)
	PINELLAS COUNTY				
280908082393401	PINELLAS WELL 6 NR TARPON SGS, FLA.	28 09 08 N	082 39 34 W	05-15-89	17.10
				09-11-89	16.22
280909082392301	PINELLAS D. WELL 7 NR TARPON SGS, FLA.	28 09 09 N	082 39 23 W	05-15-89	2.58
				09-11-89	3.75
280909082392302	PINELLAS S. WELL 7 NR TARPON SGS, FLA.	28 09 09 N	082 39 23 W	09-11-89	12.46
280910082390801	ELDRIDGE-WILDE 9 SHALLOW	28 09 10 N	082 39 08 W	05-15-89	17.58
				09-11-89	15.02
280911082391701	WELL 8092391117	28 09 11 N	082 39 17 W	05-15-89	6.06
				09-11-89	6.86
280912082394301	ELDR WILDE WF S. WELL 5A NR T. SPGS.	28 09 12 N	082 39 43 W	05-15-89	23.84
				09-11-89	26.14
280918082391201	ELDR. WILDE WF D. WELL 10 NR TARPON SGS.	28 09 18 N	082 39 12 W	05-15-89	0.95
				09-11-89	1.14
280918082392601	ELDR WILDE WF S. WELL 119 NR TARPON SGS.	28 09 18 N	082 39 26 W	05-15-89	14.73
				09-11-89	12.60
280919082395801	026D	28 09 19 N	082 39 58 W	05-15-89	4.17
				09-11-89	5.15
280919082395802	026S	28 09 19 N	082 39 58 W	05-15-89	23.82
				09-11-89	27.42
280920082393001	ELDR WILDE WF PROD WELL 119 NR TARPON SGS.	28 09 20 N	082 39 30 W	05-15-89	1.95
				09-11-89	3.18
280923082390601	WELL 8092392306	28 09 23 N	082 39 06 W	05-15-89	4.64
280926082392801	ELDR WILDE WF PROD WELL 118 NR TARPON SPGS.	28 09 26 N	082 39 28 W	05-15-89	2.84
280927082394502	USGS S. WELL EW-6 NR TARPON SGS.	28 09 27 N	082 39 45 W	05-15-89	18.44
				09-11-89	16.99
280928082393501	WELL 8092392835	28 09 28 N	082 39 35 W	05-15-89	1.99
				09-11-89	3.91
280929082391601	ELDRIDGE WILDE SH114	28 09 29 N	082 39 16 W	05-15-89	13.19
				09-11-89	11.21
280930082391801	WELL 8092393018	28 09 30 N	082 39 18 W	05-15-89	2.79
				09-11-89	4.42
280931082390601	WELL 8092393106	28 09 31 N	082 39 06 W	05-15-89	4.31
280934082392701	WELL 8092393427	28 09 34 N	082 39 27 W	09-11-89	1.80
280942082390601	PINELLAS S. WELL N1A NR TARPON SGS.	28 09 42 N	082 39 06 W	05-15-89	5.26
				09-11-89	6.39
280942082390702	PINELLAS S. WELL N1B	28 09 42 N	082 39 07 W	05-15-89	21.83
				09-11-89	20.67
280945082393001	WELL 8092394530	28 09 45 N	082 39 30 W	05-15-89	-1.24
				09-11-89	4.65
280947082393001	WELL 8092394730	28 09 47 N	082 39 30 W	05-15-89	11.54
				09-11-89	10.03
280953082391201	WELL 8092395312	28 09 53 N	082 39 12 W	05-15-89	3.95
				09-11-89	4.01
280954082390501	ELDR WILDE S. WELL 112 NR TARPON SGS, FLA.	28 09 54 N	082 39 05 W	05-15-89	23.48
				09-11-89	23.28
280955082395701	USGS D. WELL 004 NR TARPON SGS, FLA.	28 09 55 N	082 39 57 W	05-15-89	10.60
				09-11-89	10.55
280955082395702	USGS S. WELL 004 NR. TARPON SGS, FLA.	28 09 55 N	082 39 57 W	05-15-89	17.08
				09-11-89	15.31
280956082381802	ELDR WILDE S. WELL 139G NR TARPON SGS	28 09 56 N	082 38 18 W	05-15-89	33.75
				09-11-89	34.78
280957082390601	WELL 8092395706	28 09 57 N	082 39 06 W	09-11-89	5.14

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1988 TO SEPTEMBER 1989

STATION NUMBER	STATION NAME	LAT-I-TUDE	LONG-I-TUDE	DATE	ELEV-ATION ABOVE NGVD (FEET)
	PINELLAS COUNTY				
281001082391601	USGS S. WELL 109 NR TARPON SGS, FLA.	28 10 01 N	082 39 16 W	05-15-89	17.44
				09-11-89	15.71
281002082362701	WELL 8102360227	28 10 02 N	082 38 27 W	09-11-89	9.72
281002082391601	PIN COUNTY WATER SUPPLY	28 10 03 N	082 39 16 W	05-15-89	4.80
				09-11-89	5.04
281009082390601	WELL 8102390906	28 10 09 N	082 39 06 W	09-11-89	5.62
281009082392301	ELDR WILDE DP 104A	28 10 09 N	082 39 23 W	05-15-89	-0.27
				09-11-89	0.69
281010082390601	ELD WILDE N2	28 10 10 N	082 39 06 W	05-15-89	6.81
				09-11-89	7.96
281011082382001	ELDR WILDE WF PROD WELL 141 NR TARPON SPGS.	28 10 11 N	082 38 20 W	09-11-89	12.42
281012082382801	USGS S. WELL 137 NR TARPON SGS, FLA.	28 10 12 N	082 38 28 W	05-15-89	24.05
				09-11-89	22.88
281017082380901	ELDR WILDE WELL 142 NR TARPON SGS, FLA.	28 10 17 N	082 38 09 W	05-15-89	15.19
281017082380902	ELD. WILDE DP 142	28 10 17 N	082 38 09 W	05-15-89	18.00
				09-11-89	12.93
281019082390601	WELL 8102391906	28 10 19 N	082 39 06 W	05-15-89	6.06
				09-11-89	6.96
281020082395701	ELD WILDE DP 005	28 10 20 N	082 39 57 W	12-20-88	16.99
				02-28-89	12.17
				05-15-89	9.91
				05-18-89	9.61
				05-31-89	10.40
				09-11-89	10.15
				09-21-89	11.84
281020082395702	ELD WILDE SH 005	28 10 20 N	082 39 57 W	05-15-89	14.09
				09-11-89	13.53
281021082383901	ELDR. WILDE WF PROD WELL 134 NR TARPON SPGS.	28 10 21 N	082 38 39 W	09-11-89	6.68
281022082385201	WELL 810-236-314	28 10 22 N	082 38 52 W	05-15-89	6.30

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	SPECIFIC CONDUCTANCE (US/CM)	TEMPERATURE AIR (DEG C)	TEMPERATURE WATER (DEG C)	DENSITY (GM/ML AT 20 C)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)
PINELLAS COUNTY							
274839082463301 BAY PINES WELL NO. 161 (LAT 27 48 39N LONG 082 46 33W)							
OCT 1988							
11...	1000	1500	24.5	24.0	--	39	330
DEC							
15...	1130	1510	18.5	20.5	--	--	350
AUG 1989							
03...	0910	1480	29.0	23.5	--	39	340
SEP							
05...	1200	1550	28.5	24.5	--	--	350
274912082441001 South Cross Bayou S-9 (Volkorez Residence) (LAT 27 49 12N LONG 082 44 10W)							
JUL 1989							
27...	1415	761	--	25.0	0.999	0.20	44
274929082443503 SCB A3 (LAT 27 49 29N LONG 082 44 35W)							
JUL 1989							
26...	1020	--	--	27.0	1.014	1800	11000
274929082443504 SCB A4 (LAT 27 49 29N LONG 082 44 35W)							
JUL 1989							
26...	1000	8500	--	24.5	1.003	280	2800
275241082503901 MK C1 NR INDIAN ROCKS BEACH (LAT 27 52 41N LONG 082 50 39W)							
JUL 1989							
26...	1100	870	--	24.0	0.999	7.4	140
275242082503901 MCKAY CREEK WELLD1 AT INDIAN ROCKS BEACH , FL (LAT 27 52 42N LONG 082 50 39W)							
JUL 1989							
26...	1215	14600	--	27.5	1.005	750	4600
275242082503902 MCKAY CREEK WELL D0 AT INDIAN ROCKS BEACH, FL (LAT 27 52 42N LONG 082 50 39W)							
JUL 1989							
26...	1116	6500	--	24.5	1.001	41	2000
275430082431401 ROMP TR13-2 L.SWNN WELL NR LARGO, FL (LAT 27 54 30N LONG 082 43 14W)							
OCT 1988							
13...	1130	50100	23.5	24.5	--	--	20000
DEC							
13...	1230	50000	13.5	25.0	--	--	20000
JAN 1989							
30...	1415	50200	28.0	25.0	--	--	20000
APR							
06...	1440	53000	22.0	23.5	--	--	18000
JUN							
09...	0920	53000	30.0	25.5	--	3100	20000
AUG							
08...	1145	50400	31.0	26.0	--	--	20000
275430082431402 ROMP TR13-2 U.SWNN WELL NR HIGH POINT, FL (LAT 27 54 30N LONG 082 43 14W)							
OCT 1988							
13...	1115	9000	23.0	24.5	--	--	3000
DEC							
13...	1210	9500	13.5	24.5	--	--	3000
JAN 1989							
30...	1400	9200	28.0	24.0	--	--	3000
APR							
06...	1420	9500	22.0	24.0	--	--	3000
JUN							
09...	0855	9400	30.0	24.5	--	60	3000
AUG							
08...	1130	9400	31.0	25.0	--	--	3000

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

PINELLAS COUNTY

275458082464002 ROMP TR13-1 SWNN WELL NR LARGO (LAT 27 54 58N LONG 082 46 40W)

DATE	TIME	SPECIFIC CONDUCTANCE (US/CM)	TEMPERATURE AIR (DEG C)	TEMPERATURE WATER (DEG C)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)
OCT 1988						
13...	0905	1300	20.0	24.0	--	300
DEC						
13...	1345	1290	14.5	24.5	--	310
JAN 1989						
30...	1215	1320	27.5	24.0	--	310
APR						
06...	1240	1410	19.5	23.5	--	310
JUN						
09...	1055	1400	30.0	24.5	20	340
AUG						
08...	1240	1410	31.0	24.5	--	340

275458082464003 ROMP TR13-1 TAMP WELL NR LARGO, FL (LAT 27 54 58N LONG 082 46 40W)

DATE	TIME	SPECIFIC CONDUCTANCE (US/CM)	TEMPERATURE AIR (DEG C)	TEMPERATURE WATER (DEG C)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)
OCT 1988						
13...	0940	2900	20.0	24.5	--	83
DEC						
13...	1400	2900	14.5	24.0	--	83
JAN 1989						
30...	1240	1950	27.5	24.0	--	77
APR						
06...	1300	1210	23.5	23.5	--	80
JUN						
09...	1030	1800	30.0	24.5	11	88
AUG						
08...	1255	1350	31.0	24.0	--	89

275753082433701 CLE-DUN D. WELL 27 NR CLEARWATER,FL (LAT 27 57 53N LONG 082 43 37W)

DATE	TIME	SPECIFIC CONDUCTANCE (US/CM)	TEMPERATURE AIR (DEG C)	TEMPERATURE WATER (DEG C)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)
NOV 1988						
30...	1200	35500	--	24.5	--	13000
DEC						
15...	1230	35000	23.5	23.0	--	13000
JAN 1989						
30...	1450	36500	--	25.0	--	13000
APR						
07...	1240	35000	23.5	23.0	--	11000
JUN						
08...	1400	36000	30.0	24.5	--	13000
AUG						
07...	1300	37000	31.5	23.0	--	14000

275825082460201 CLEARWATER WELL #30 AT CLEARWATER , FL 412 (LAT 27 58 25N LONG 082 46 02W)

DATE	TIME	SPECIFIC CONDUCTANCE (US/CM)	TEMPERATURE AIR (DEG C)	TEMPERATURE WATER (DEG C)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)
OCT 1988						
04...	1205	4400	27.5	24.5	--	1600
DEC						
12...	1233	4300	18.5	24.5	--	1200
JAN 1989						
31...	1034	4250	23.5	24.5	--	1200
APR						
07...	1347	4350	25.0	24.5	--	1300
MAY						
03...	1258	4600	29.0	24.5	95	1300
AUG						
01...	1135	4400	32.5	24.5	--	1300

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

PINELLAS COUNTY

280002082412601 ROMP TR14-1 SWNN WELL NR SAFETY HARBOR, FL (LAT 28 00 02N LONG 082 41 26W)

DATE	TIME	SPECIFIC CONDUCTANCE (US/CM)	TEMPERATURE AIR (DEG C)	TEMPERATURE WATER (DEG C)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)
OCT 1988						
05...	1330	300	29.0	24.0	--	11
DEC						
12...	1414	310	22.5	24.0	--	10
JAN 1989						
31...	0925	300	22.0	24.5	--	12
APR						
07...	1130	310	22.5	24.0	--	11
JUN						
07...	0910	300	28.5	24.0	4.2	--
AUG						
04...	1010	315	29.5	23.5	--	12
SEP						
05...	1345	310	30.0	24.5	--	11

280002082412602 ROMP TR14-1 TAMP WELL NR SAFETY HARBOR, FL (LAT 28 00 02N LONG 082 41 26W)

DEC 1988						
12...	1435	320	20.0	23.5	--	9.2
JAN 1989						
31...	0941	325	22.0	23.0	--	12
APR						
07...	1150	330	22.5	24.0	--	11
JUN						
07...	1035	330	28.5	23.5	2.3	16
AUG						
04...	1030	318	29.5	24.5	--	11

280022082424901 CLEARWATER WELL #67 AT CLEARWATER , FL (LAT 28 00 22N LONG 082 42 49W)

OCT 1988						
04...	0802	3800	22.5	23.5	--	--
DEC						
08...	1412	3800	29.0	23.0	--	1000
JAN 1989						
31...	0823	3650	23.0	24.0	--	1000
APR						
07...	1014	3800	21.5	23.0	--	1000
MAY						
02...	1328	3300	25.5	23.5	33	940
AUG						
02...	1358	2700	27.5	24.0	--	740

280118082434501 ROMP TR14-3 SWNN WELL NR DUNEDIN, FL (LAT 28 01 18N LONG 082 43 45W)

OCT 1988						
03...	1317	290	32.5	24.5	--	14
DEC						
07...	1445	290	24.0	24.0	--	9.5
FEB 1989						
01...	0925	295	21.0	24.0	--	17
APR						
07...	0920	300	19.0	23.5	--	13
JUN						
06...	0900	295	27.5	24.5	1.6	16
AUG						
01...	0840	295	27.5	24.5	--	17

280132082452801 ROMP TR14-2 OCAL WELL NR DUNEDIN, FL (LAT 28 01 32N LONG 082 45 28W)

OCT 1988						
04...	1036	30000	27.5	24.5	--	11000
DEC						
12...	1115	28000	18.5	24.5	--	11000
JAN 1989						
31...	1325	30000	26.0	24.5	--	10000
APR						
05...	1326	29500	27.5	24.5	--	10000
JUN						
06...	1030	30000	27.5	24.5	1400	10000
AUG						
01...	1035	30000	31.0	24.5	--	10000

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

PINELLAS COUNTY

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	TEMPERATURE AIR (DEG C)	TEMPERATURE WATER (DEG C)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)
280132082452802 ROMP TR14-2 TAMP WELL NR DUNEDIN, FL (LAT 28 01 32N LONG 082 45 28W)							
OCT 1988							
04...	1014	--	6000	27.0	24.5	--	1700
DEC							
12...	1055	--	5800	18.5	24.0	--	1700
JAN 1989							
31...	1300	--	6000	26.0	24.0	--	1800
APR							
05...	1303	--	5700	27.5	24.5	--	1600
JUN							
06...	1000	--	5200	27.5	24.5	200	1500
AUG							
01...	1010	--	5900	31.0	24.5	--	1800
280457082420401 BROOKER CR NR SR 593 AND BROOKER CREEK (LAT 28 04 57N LONG 082 42 04W)							
OCT 1988							
07...	1205	--	2800	27.0	24.0	--	800
DEC							
13...	1048	--	2900	12.5	24.0	78	820
FEB 1989							
06...	1030	--	2600	--	25.0	86	770
MAR							
01...	1000	--	--	--	--	--	800
APR							
11...	1145	--	2550	23.0	23.0	--	--
MAY							
01...	1130	--	2800	26.5	23.5	62	800
JUN							
14...	1045	--	2800	--	25.0	--	780
AUG							
02...	1030	--	2790	--	25.0	--	870
07...	1120	--	2680	--	26.0	--	800
280457082420402 BROOKER CREEK WELL NR OLDSMAR, FLA (LAT 28 04 57N LONG 082 42 04W)							
OCT 1988							
07...	1109	--	5000	28.0	24.5	--	1300
DEC							
13...	1017	--	5100	12.5	24.5	250	1300
FEB 1989							
06...	1015	--	--	--	25.0	250	1300
APR							
11...	1140	--	4600	23.0	25.0	--	1400
MAY							
01...	1048	--	5010	26.5	25.0	--	1300
JUN							
14...	1100	--	5000	--	25.0	--	1300
AUG							
07...	1155	--	4600	--	25.0	--	1300
280614082411601 M-2 DEEP WELL (LAT 28 06 14N LONG 082 41 16W)							
MAR 1989							
01...	0915	510	--	--	--	--	1400
01...	0930	535	--	--	--	--	1600
AUG							
02...	1100	510	4270	--	25.0	--	1500
02...	1115	535	5020	--	24.5	--	1600

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	TEMPERATURE AIR (DEG C)	TEMPERATURE WATER (DEG C)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
PINELLAS COUNTY								
280630082415401 GOLF CRSE DP M-5 (LAT 28 06 30N LONG 082 41 54W)								
MAR 1989								
01...	1030	308	--	--	--	--	--	--
01...	1100	485	--	--	--	--	--	--
AUG								
02...	1200	308	1510	--	24.5	--	--	--
02...	1215	485	3550	--	24.0	--	--	--
280734082442101 ROMP DP WL 15-3 (LAT 28 07 34N LONG 082 44 21W)								
OCT 1988								
04...	1318	--	1700	27.5	24.5	--	--	--
DEC								
07...	1050	--	1550	23.0	24.5	--	--	--
FEB 1989								
02...	1200	--	1620	28.5	24.5	--	--	--
APR								
05...	0840	--	1600	23.5	24.5	--	--	--
MAY								
02...	0940	--	1520	26.0	24.5	20	3.2	260
AUG								
02...	1226	--	1550	23.0	24.5	--	--	--
280753082465201 ROMP DP WELL 15-1 (LAT 28 07 53N LONG 082 46 52W)								
OCT 1988								
07...	1258	--	2800	27.5	24.5	--	--	--
DEC								
07...	1157	--	2800	25.0	24.0	--	--	--
FEB 1989								
02...	1300	--	2220	28.5	24.0	--	--	--
APR								
05...	0954	--	2400	23.5	24.5	--	--	--
MAY								
02...	1100	--	2550	27.5	24.0	110	36	350
AUG								
02...	1039	--	2750	31.5	25.0	--	--	--
280846082414301 PINELLAS DP 28 (LAT 28 08 46N LONG 082 41 43W)								
MAR 1989								
01...	1330	545	--	--	--	--	--	--
01...	1345	667	--	--	--	--	--	--
AUG								
02...	1345	545	586	--	24.5	--	--	--
02...	1400	667	--	--	24.0	--	--	--
280847082414301 PINELLAS DP 103 (LAT 28 08 47N LONG 082 41 43W)								
MAR 1989								
01...	1300	260	--	--	--	--	--	--
01...	1315	340	--	--	--	--	--	--
280852082414301 NORTH LAKE TARPON (LAT 28 08 52N LONG 082 41 43W)								
APR 1989								
06...	1510	780	38600	--	24.5	--	--	--
11...	1505	--	40000	--	24.5	--	--	--
MAY								
11...	1315	--	44000	--	24.0	--	--	--
JUN								
14...	1420	--	41000	--	25.0	--	--	--
JUL								
07...	1030	--	42000	--	24.5	--	--	--
AUG								
07...	1330	--	42500	--	24.5	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	STRONTIUM, DISSOLVED (UG/L AS SR)
PINELLAS COUNTY							
280630082415401 GOLF CRSE DP M-5 (LAT 28 06 30N LONG 082 41 54W)							
MAR 1989							
01...	--	--	340	--	--	--	--
01...	--	--	1000	--	--	--	--
AUG							
02...	--	--	340	--	--	--	--
02...	--	--	1000	--	--	--	--
280734082442101 ROMP DP WL 15-3 (LAT 28 07 34N LONG 082 44 21W)							
OCT 1988							
04...	--	38	410	--	--	--	--
DEC							
07...	--	40	370	--	--	--	--
FEB 1989							
02...	--	36	420	--	--	--	--
APR							
05...	--	36	380	--	--	--	--
MAY							
02...	11	38	390	0.60	0.90	768	2400
AUG							
02...	--	37	370	--	--	--	--
280753082465201 ROMP DP WELL 15-1 (LAT 28 07 53N LONG 082 46 52W)							
OCT 1988							
07...	--	25	670	--	--	--	--
DEC							
07...	--	38	700	--	--	--	--
FEB 1989							
02...	--	18	540	--	--	--	--
APR							
05...	--	17	560	--	--	--	--
MAY							
02...	11	24	620	0.50	11	1420	250
AUG							
02...	--	32	680	--	--	--	--
280846082414301 PINELLAS DP 28 (LAT 28 08 46N LONG 082 41 43W)							
MAR 1989							
01...	--	--	30	--	--	--	--
01...	--	--	980	--	--	--	--
AUG							
02...	--	--	44	--	--	--	--
02...	--	--	1000	--	--	--	--
280847082414301 PINELLAS DP 103 (LAT 28 08 47N LONG 082 41 43W)							
MAR 1989							
01...	--	--	12	--	--	--	--
01...	--	--	13	--	--	--	--
280852082414301 NORTH LAKE TARPON (LAT 28 08 52N LONG 082 41 43W)							
APR 1989							
06...	--	2600	15000	--	--	--	--
11...	--	--	16000	--	--	--	--
MAY							
11...	--	--	--	--	--	--	--
JUN							
14...	--	--	16000	--	--	--	--
JUL							
07...	--	--	16000	--	--	--	--
AUG							
07...	--	--	16000	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	TEMPERATURE AIR (DEG C)	TEMPERATURE WATER (DEG C)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)
PINELLAS COUNTY							
280904082400302 EW MONITOR 3A DP WELL NR TARPON SPRINGS,FL (LAT 28 09 04N LONG 082 40 03W)							
MAR 1989							
02...	1030	685	--	--	--	--	240
02...	1045	890	--	--	--	--	17
02...	1100	1090	--	--	--	--	580
AUG							
01...	1040	685	1520	--	24.0	--	260
01...	1215	890	504	--	24.5	--	29
01...	1230	1090	3260	--	25.0	--	560
280907082424801 TARPON RD D[illegible] (LAT 28 09 07N LONG 082 42 48W)							
OCT 1988							
03...	1032	--	530	27.5	24.5	--	55
DEC							
07...	0945	--	540	21.0	23.5	--	56
FEB 1989							
03...	1228	--	540	26.5	25.0	--	56
APR							
03...	1415	--	550	22.0	24.5	--	55
MAY							
02...	1219	--	540	28.5	24.5	16	56
JUN							
05...	1135	--	570	30.0	25.0	--	58
AUG							
02...	0818	--	540	26.5	24.5	--	57
280942082411801 EW NORTHWEST DP WELL (LAT 28 09 42N LONG 082 41 18W)							
MAR 1989							
02...	1415	530	--	--	--	--	9.7
02...	1430	725	--	--	--	--	15
02...	1445	1010	--	--	--	--	9.9
AUG							
01...	1235	530	414	--	25.0	--	8.7
01...	1410	725	370	--	24.5	--	15
01...	1425	1010	412	--	25.0	--	10
280944082390801 EW MONITOR N1 DP WELL NR TARPON SPRINGS,FL (LAT 28 09 44N LONG 082 39 08W)							
MAR 1989							
02...	1245	670	--	--	--	--	9.6
02...	1300	890	--	--	--	--	9.1
02...	1315	1080	--	--	--	--	30
AUG							
01...	1010	670	441	--	23.5	--	9.2
01...	1035	890	350	--	24.0	--	8.5
01...	1120	1080	1150	--	25.0	--	30
281020082395701 ELD WILDE DP 005 (LAT 28 10 20N LONG 082 39 57W)							
MAY 1989							
31...	1159	--	250	--	26.0	--	3.4
281022082420701 EW NORTHWEST SH WELL (LAT 28 10 22N LONG 082 42 07W)							
MAR 1989							
01...	1200	254	--	--	--	--	17
01...	1230	315	--	--	--	--	25
AUG							
01...	1510	254	472	--	24.5	--	18
01...	1530	315	516	--	25.0	--	25

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	CALCIUM DIS-SOLVED (MG/L AS CA)
PINELLAS COUNTY											
280601082455301 PINCO NWSTP 1020 BPND (LAT 28 06 01N LONG 082 45 53W)											
JAN 1989											
10...	1015	--	7.65	22.5	<5	10	<0.1	<0	<0	<0	56
MAR											
02...	1245	909	7.68	23.5	<5	100	<0.1	<0	<0	<0	56
MAY											
10...	1110	2050	7.61	24.0	<5	28	0.5	K1	<0	<0	70
AUG											
01...	0845	822	7.66	24.5	<5	23	0.4	<0	<0	<0	54
280601082460301 INNISBROOK 810 BEE POND RD NR TARPON SPRINGS (LAT 28 06 01N LONG 082 46 03W)											
JAN 1989											
10...	1030	2130	7.49	23.5	<5	23	<0.1	<0	<0	<0	76
MAR											
02...	1200	2490	7.64	23.5	<5	88	<0.1	<0	<0	K12	94
MAY											
10...	1025	2810	7.60	25.0	<5	34	0.1	<0	<0	<0	100
AUG											
01...	0805	2610	7.62	25.5	<5	35	0.3	<0	<0	<0	95
280614082462301 PINCO NWSTP 604 HILS (LAT 28 06 14N LONG 082 46 23W)											
JAN 1989											
10...	1100	454	7.30	24.5	5	33	<0.1	<0	<0	<0	67
MAR											
02...	1045	441	7.30	24.0	5	81	<0.1	K1	<0	K1	64
MAY											
10...	0805	624	7.31	24.0	5	12	0.2	<0	<0	<0	71
AUG											
01...	0940	440	7.27	24.5	5	12	0.5	K2	<0	<0	63
280618082454001 PINCO NWSTP 31 (LAT 28 06 18N LONG 082 45 40W)											
JAN 1989											
12...	1040	133	4.70	27.0	<5	14	--	<0	<0	<0	10
MAR											
02...	1000	152	4.32	24.5	<5	67	<0.1	K2	<0	<0	12
MAY											
09...	1015	145	4.34	25.5	<5	<10	0.2	<0	<0	39	12
JUL											
31...	0825	142	4.52	25.0	<5	14	0.6	E0	E0	E0	11
280629082454204 INNISBROOK 20D NEAR TARPON SRRINGS, FL (LAT 28 06 29N LONG 082 45 42W)											
MAY 1989											
09...	0810	1230	7.37	24.0	30	53	0.4	K1	<0	<0	66
JUL											
31...	0935	495	7.28	28.0	10	26	1.0	37	30	36	59
280629082454205 INNISBROOK 20E NEAR TARPON SPRINGS, FL (LAT 28 06 29N LONG 082 45 42W)											
MAY 1989											
09...	0900	1120	7.35	30.5	10	35	0.5	K5	<0	59	74
JUL											
31...	1020	1040	7.27	25.5	20	43	1.1	61	52	62	70
280631082454601 NW PIN INJ SH 134 27S15E25 NR CRYSTAL BEACH (LAT 28 06 31N LONG 082 45 46W)											
MAR 1989											
08...	1100	998	7.61	19.0	--	--	--	--	--	--	67

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)
PINELLAS COUNTY										
280601082455301 PINCO NWSTP 1020 BPND (LAT 28 06 01N LONG 082 45 53W)										
JAN 1989										
10...	9.3	57	2.6	--	27	110	0.10	7.7	370	<0.010
MAR										
02...	14	98	4.3	--	33	180	0.20	7.8	512	<0.010
MAY										
10...	36	300	11	--	86	550	0.40	8.3	1250	<0.010
AUG										
01...	13	89	3.6	--	35	160	0.20	8.1	483	<0.010
280601082460301 INNISBROOK 810 BEE POND RD NR TARPON SPRINGS (LAT 28 06 01N LONG 082 46 03W)										
JAN 1989										
10...	22	310	7.2	--	100	550	0.20	10	1220	0.010
MAR										
02...	28	380	8.2	--	120	660	0.20	11	1520	0.010
MAY										
10...	32	440	8.7	--	130	790	0.30	12	1750	<0.010
AUG										
01...	29	390	8.1	--	130	650	0.30	11	1590	<0.010
280614082462301 PINCO NWSTP 604 HILS (LAT 28 06 14N LONG 082 46 23W)										
JAN 1989										
10...	2.9	21	3.6	--	27	23	0.60	7.5	275	<0.010
MAR										
02...	2.8	21	3.5	--	25	27	0.80	7.3	262	0.010
MAY										
10...	5.2	45	4.7	--	35	74	0.80	7.3	381	<0.010
AUG										
01...	2.9	21	3.6	--	27	28	0.70	7.7	262	<0.010
280618082454001 PINCO NWSTP 31 (LAT 28 06 18N LONG 082 45 40W)										
JAN 1989										
12...	1.1	3.0	1.0	--	32	6.0	0.30	5.8	92	<0.010
MAR										
02...	1.3	3.6	1.0	--	30	9.0	0.30	5.6	84	<0.010
MAY										
09...	1.4	4.4	1.0	--	29	9.5	0.40	5.7	93	<0.010
JUL										
31...	1.4	4.3	1.0	--	31	10	0.30	5.8	83	<0.010
280629082454204 INNISBROOK 20D NEAR TARPON SRRINGS, FL (LAT 28 06 29N LONG 082 45 42W)										
MAY 1989										
09...	5.6	140	40	--	17	180	1.2	19	655	<0.010
JUL										
31...	4.8	26	8.8	--	50	46	0.60	9.0	299	0.030
280629082454205 INNISBROOK 20E NEAR TARPON SPRINGS, FL (LAT 28 06 29N LONG 082 45 42W)										
MAY 1989										
09...	7.0	120	28	--	16	170	0.50	13	619	<0.010
JUL										
31...	6.8	130	18	--	25	160	0.40	11	582	<0.010
280631082454601 NW PIN INJ SH 134 27S15E25 NR CRYSTAL BEACH (LAT 28 06 31N LONG 082 45 46W)										
MAR 1989										
08...	6.1	120	32	264	24	160	0.80	13	596	<0.010

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHOROUS TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	SELENIUM, TOTAL (UG/L AS SE)	STRONTIUM, DISSOLVED (UG/L AS SR)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	N-15 / N-14 STABLE ISOTOPE RATIO PER MIL
PINELLAS COUNTY										
280601082455301 PINCO NWSTP 1020 BPND (LAT 28 06 01N LONG 082 45 53W)										
JAN 1989										
10...	1.60	0.010	<0.20	0.020	0.020	2	<1	210	--	--
MAR										
02...	1.70	<0.010	<0.20	0.030	0.030	2	<1	260	0.10	9.90
MAY										
10...	2.40	<0.010	<0.20	0.040	0.040	2	<1	200	--	--
AUG										
01...	1.50	<0.010	<0.20	0.030	0.020	2	<1	250	--	--
280601082460301 INNISBROOK 810 BEE POND RD NR TARPON SPRINGS (LAT 28 06 01N LONG 082 46 03W)										
JAN 1989										
10...	5.70	0.010	0.33	<0.020	0.010	2	9	520	--	--
MAR										
02...	5.70	<0.010	<0.20	<0.020	0.010	2	8	660	0.22	7.20
MAY										
10...	5.00	<0.010	<0.20	0.020	0.010	2	8	600	--	--
AUG										
01...	6.20	<0.010	0.97	<0.020	0.010	3	8	680	--	--
280614082462301 PINCO NWSTP 604 HILS (LAT 28 06 14N LONG 082 46 23W)										
JAN 1989										
10...	0.560	0.010	0.32	0.500	0.500	1	<1	180	--	--
MAR										
02...	5.70	<0.010	<0.20	0.570	0.570	1	<1	170	0.05	12.90
MAY										
10...	0.780	<0.010	0.22	0.560	0.560	1	<1	170	--	--
AUG										
01...	1.20	<0.010	<0.20	0.530	0.530	2	<1	180	--	--
280618082454001 PINCO NWSTP 31 (LAT 28 06 18N LONG 082 45 40W)										
JAN 1989										
12...	2.60	0.010	0.25	0.030	0.010	<1	<1	150	--	--
MAR										
02...	3.50	<0.010	<0.20	<0.020	0.010	<1	<1	50	0.07	4.50
MAY										
09...	3.40	<0.010	0.31	0.020	0.010	<1	<1	50	--	--
JUL										
31...	3.70	<0.010	<0.20	<0.020	0.010	<1	<1	70	--	--
280629082454204 INNISBROOK 20D NEAR TARPON SRRINGS, FL (LAT 28 06 29N LONG 082 45 42W)										
MAY 1989										
09...	<0.020	21.0	22	7.00	6.80	2	--	180	--	--
JUL										
31...	0.040	1.80	2.3	2.90	2.50	2	<1	170	--	--
280629082454205 INNISBROOK 20E NEAR TARPON SPRINGS, FL (LAT 28 06 29N LONG 082 45 42W)										
MAY 1989										
09...	<0.020	10.0	11	2.80	2.80	<1	8	220	--	--
JUL										
31...	<0.020	5.80	6.4	2.10	1.60	11	<1	260	--	--
280631082454601 NW PIN INJ SH 134 27S15E25 NR CRYSTAL BEACH (LAT 28 06 31N LONG 082 45 46W)										
MAR 1989										
08...	0.020	5.50	6.8	5.40	5.30	--	--	230	0.27	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE AIR (DEG C)	TEMPER-ATURE WATER (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
					PINELLAS COUNTY						
280632082455001 NW PINELLAS MTR DP (LAT 28 06 32N LONG 082 45 50W)											
MAR 1989											
09...	1100	4350	7.44	--	18.0	--	--	--	--	--	--
MAY											
01...	1325	3650	--	26.5	24.5	5	--	--	--	--	--
280634082453405 INNISBROOK 3434.5 144 27S15E25 NR CRYSTAL BEAC(LAT 28 06 34N LONG 082 45 34W)											
JAN 1989											
12...	1325	356	6.26	--	24.5	<5	20	--	K1	<0	<0
MAR											
02...	0900	--	4.91	--	23.0	<5	46	<0.1	K19	<0	24
MAY											
09...	1140	521	5.13	--	25.0	<5	13	0.2	K1	<0	<0
JUL											
31...	1155	605	6.29	--	25.5	5	34	0.8	31	<0	K4
280647082461401 PINCO NWST 811 HARRY (LAT 28 06 47N LONG 082 46 14W)											
JAN 1989											
10...	0920	399	8.68	--	23.0	<5	<10	<0.1	<0	<0	<0
MAR											
10...	1200	429	7.49	--	23.5	--	--	--	--	--	--
MAY											
10...	0945	455	7.74	--	24.0	<5	<10	0.5	<0	<0	<0

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)
280632082455001 NW PINELLAS MTR DP (LAT 28 06 32N LONG 082 45 50W)											
MAR 1989											
09...	100	75	690	24	198	200	1200	0.20	9.2	2620	<0.010
MAY											
01...	80	60	570	24	--	160	900	0.30	9.4	2030	<0.010
280634082453405 INNISBROOK 3434.5 144 27S15E25 NR CRYSTAL BEAC(LAT 28 06 34N LONG 082 45 34W)											
JAN 1989											
12...	16	7.6	16	18	--	75	24	0.30	5.4	196	<0.010
MAR											
02...	16	6.9	27	17	--	53	44	0.30	4.5	229	0.010
MAY											
09...	18	7.2	52	17	--	68	75	0.30	4.4	322	0.010
JUL											
31...	14	4.7	80	14	--	46	120	0.30	4.1	342	<0.010
280647082461401 PINCO NWST 811 HARRY (LAT 28 06 47N LONG 082 46 14W)											
JAN 1989											
10...	58	5.4	17	1.2	--	18	25	<0.10	8.8	248	<0.010
MAR											
10...	62	5.9	20	1.3	--	20	27	0.10	9.0	249	0.010
MAY											
10...	59	6.0	23	1.3	--	21	33	0.10	9.0	276	<0.010

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHOROUS TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	SELENIUM, TOTAL (UG/L AS SE)	STRONTIUM, DISSOLVED (UG/L AS SR)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	N-15 / N-14 STABLE ISOTOPE RATIO PER MIL
PINELLAS COUNTY										
280632082455001 NW PINELLAS MTR DP (LAT 28 06 32N LONG 082 45 50W)										
MAR 1989										
09...	<0.020	0.150	0.20	0.120	0.070	--	--	1200	0.31	--
MAY										
01...	0.020	0.120	0.23	0.100	0.110	--	--	1000	--	--
280634082453405 INNISBROOK 3434.5 144 27S15E25 NR CRYSTAL BEAC(LAT 28 06 34N LONG 082 45 34W)										
JAN 1989										
12...	4.60	0.010	0.60	0.030	0.010	<1	<1	140	--	--
MAR										
02...	8.40	<0.010	0.45	2.02	<0.010	<1	<1	70	0.17	7.00
MAY										
09...	9.10	0.640	1.2	0.030	0.020	<1	<1	70	--	--
JUL										
31...	5.60	0.490	1.2	0.080	0.040	1	<1	100	--	--
280647082461401 PINCO NWST 811 HARRY (LAT 28 06 47N LONG 082 46 14W)										
JAN 1989										
10...	1.40	0.020	<0.20	0.030	0.030	<1	<1	180	--	--
MAR										
10...	1.80	<0.010	<0.20	0.060	0.020	--	--	170	0.06	11.20
MAY										
10...	3.10	<0.010	<0.20	0.030	0.040	1	1	160	--	--

KEY TO SITE LOCATIONS ON FIGURE 26

POLK COUNTY

INDEX NUMBER	SITE NUMBER	PAGE NUMBER	INDEX NUMBER	SITE NUMBER	PAGE NUMBER
1	273849081511101	251	13	275023081321602	261
2	273851082031501	251	14	275207081411301	262
2	273851082031502	252	15	275314081514201	262
2	273851082031503	252	15	275314081514202	263
3	273929081363801	253	15	275314081514203	263
4	274151081513201	253	16	275326081585801	264
5	274155081573201	254	17	275348081335701	264
6	274225081315201	254	17	275348081335703	265
7	274409082015001	255	18	275411081372001	265
8	274545081342501	255	18	275411081372002	266
8	274545081342503	256	18	275411081372003	266
9	274547081470901	256	19	275507081353701	267
9	274547081470902	257	19	275507081353702	267
9	274547081470903	257	20	275815081444201	268
10	274730081333801	258	21	275840081391101	268
10	274730081333802	258	22	275959081552501	269
11	274926081355301	259	23	280229081325201	269
11	274926081355302	259	24	280456081374301	270
12	275009081540901	260	25	281532081345001	271
13	275023081321601	261	25	281532081345002	271

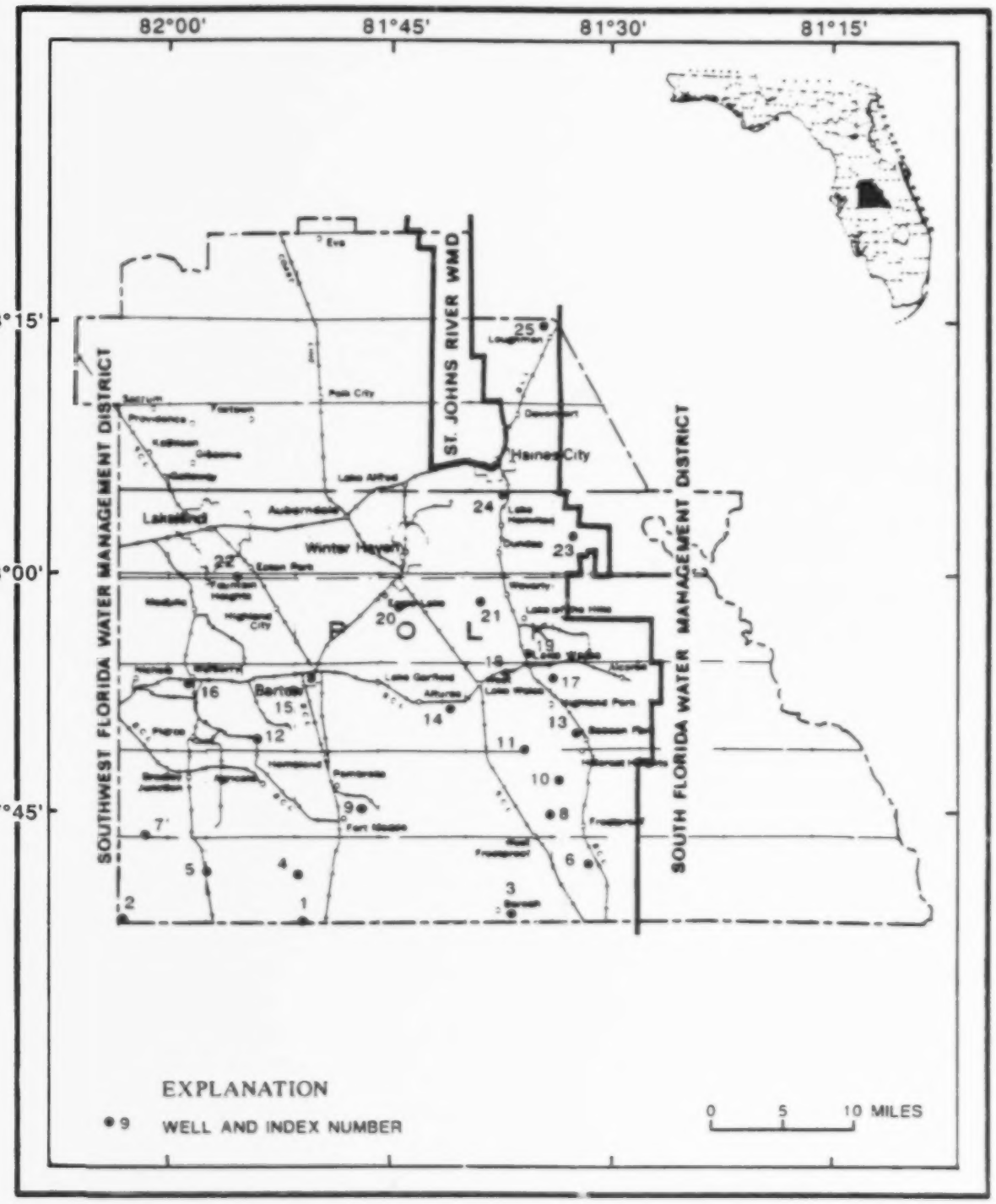

Figure 26.--Location of wells in Polk County.

POLK COUNTY

WELL NUMBER.--273849081511101. Maddox Well near Bowling Green, FL.

LOCATION.--Lat 27°38'49", long 81°51'11", in SE¼SW¼ sec.31, T.32 S., R.25 E., Hydrologic Unit 03100101, 450 ft north of Polk-Hardee County Line Road, and 1.7 mi west of Bowling Green. Owner: C. Maddox.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused irrigation, artesian well, diameter 8 in., depth 737 ft, cased to 50 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is above 117.47 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District). Measuring point: Top of recorder shelter floor, 3.06 ft above land-surface datum. Prior to Sept. 14, 1971, top of recorder shelter floor, 3.50 ft above land-surface datum; Sept. 14, 1971, to Nov. 13, 1986, top of metal plate below shelter floor, 3.00 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby industrial and irrigation wells. Extremes may have been exceeded during periods of missing record.

PERIOD OF RECORD.--March 1963 to current year, incomplete. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 75.91 ft NGVD, Mar. 10, 1964; lowest, 23.71 ft NGVD, May 9, 1975.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	61.42	53.39	57.36	56.64	53.65	45.14	45.62	44.58	34.99	45.45	52.86	54.39
10	61.80	54.82	56.95	55.20	51.40	47.20	45.31	43.03	36.07	47.18	52.33	55.44
15	59.46	54.80	57.79	53.18	49.63	48.00	43.50	41.10	36.28	47.98	52.56	54.70
20	56.79	53.97	57.29	52.39	48.32	47.31	45.24	37.64	37.53	48.86	52.76	55.62
25	55.77	55.14	58.69	53.87	42.89	46.35	44.66	35.39	40.44	50.50	52.79	55.70
EOM	52.86	56.20	56.93	55.03	42.50	45.73	43.56	35.51	42.76	51.43	53.47	56.65
MAX	61.81	56.20	58.88	57.36	54.78	48.13	46.07	44.65	42.76	51.43	53.50	56.65

CAL YR 1988 MAX 65.14
WTR YR 1989 MAX 61.81

WELL NUMBER.--273851082031501. ROMP 40 Avon Park Well near Duette, FL.

LOCATION.--Lat 27°38'51", long 82°03'15", in SW¼SW¼ sec.31, T.32 S., R.23 E., Hydrologic Unit 03100101, 200 ft west of State Highway 37, 0.1 mi south of Grace Chemical Plant entrance road, and 6.3 mi north of Duette. Owner: Southwest Florida Water Management District.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation well, diameter 10 in., depth 1,140 ft, cased to 408 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 137.94 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District). Measuring point: Top of recorder shelter floor, 2.09 ft above land-surface datum.

PERIOD OF RECORD.--July 1981 to current year (incomplete).

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 55.70 ft NGVD, Oct. 9, 1982; lowest, 5.55 ft NGVD, June 3, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	42.73	31.63	35.67	33.40	27.43	---	18.18	15.41	6.24	23.76	34.32	35.67
10	41.84	32.86	35.21	30.24	26.02	---	18.74	14.38	9.64	25.69	34.81	36.71
15	39.49	32.49	36.32	27.15	23.80	---	16.89	12.50	11.96	27.46	35.53	35.95
20	37.50	31.61	36.52	26.75	20.69	18.66	17.92	9.58	14.16	29.72	35.58	36.34
25	35.14	32.94	35.88	28.83	15.95	18.81	15.71	7.76	16.96	31.20	35.37	37.13
EOM	31.45	34.49	34.88	30.79	---	18.30	15.03	6.65	20.08	32.85	34.85	37.52
MAX	43.11	34.49	36.85	35.05	---	---	18.88	16.32	20.08	32.85	35.81	37.52

CAL YR 1988 MAX 46.43

POLK COUNTY

WELL NUMBER.--273851082031502. ROMP 40 Hawthorn Well near Duette, FL.

LOCATION.--Lat 27°38'51", long 82°03'15", in SW¼SW¼ sec.31, T.33 S., R.23 E., Hydrologic Unit 03100101, 200 ft west of State Highway 37, 0.1 mi south of Grace Chemical Plant entrance road, and 6.3 mi north of Duette. Owner: Southwest Florida Water Management District.

AQUIFER.--Hawthorn formation of Miocene Age, Geologic Unit 122 HTRN.

WELL CHARACTERISTICS.--Drilled, observation well, diameter 12 in., depth 180 ft, cased to 76 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 137.94 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District). Measuring point: Top of recorder shelter floor, 3.21 ft above land-surface datum.

REMARKS.--Water levels may be affected by nearby phosphate mining activities.

PERIOD OF RECORD.--July 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 130.03 ft NGVD, Mar. 28, 29, 1984; lowest, 116.39 ft NGVD, July 31, Aug. 2, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	128.46	128.13	127.95	125.65	123.56	121.00	119.14	118.57	118.19	117.81	116.41	116.55
10	128.37	128.07	127.81	125.37	122.89	120.77	119.01	118.52	118.07	117.44	116.40	116.55
15	128.27	128.04	127.51	125.11	122.26	120.53	118.93	118.44	117.96	116.53	116.46	116.59
20	128.23	128.03	127.01	124.79	121.87	120.25	118.82	118.33	117.91	116.62	116.47	116.75
25	128.15	128.07	126.55	124.51	121.46	119.57	118.68	118.26	117.94	116.47	116.46	116.90
EOM	128.02	128.04	126.03	124.06	121.36	119.40	118.63	118.14	117.89	116.39	116.48	117.04
MAX	128.50	128.20	128.04	125.96	123.98	121.29	119.36	118.66	118.19	117.91	116.48	117.04

CAL YR 1988 MAX 129.16
WTR YR 1989 MAX 128.50

WELL NUMBER.--273851082031503. ROMP 40 Shallow Well near Duette, FL.

LOCATION.--Lat 27°38'51", long 82°03'15", in SW¼SW¼ sec.31, T.33 S., R.23 E., Hydrologic Unit 03100101, 200 ft west of State Highway 37, 0.1 mi south of Grace Chemical Plant entrance road, and 6.3 mi north of Duette. Owner: Southwest Florida Water Management District.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 111 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 15 ft, cased to 10 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 137.94 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District). Measuring point: Top of recorder shelter floor, 2.90 ft above land-surface datum.

REMARKS.--Water levels may be affected by nearby phosphate mining activities.

PERIOD OF RECORD.--July 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 137.93 ft NGVD, Sept. 7, 1988; lowest, 127.68 ft NGVD, Sept. 16, 17, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	135.97	136.34	135.62	134.51	134.27	134.08	130.74	129.36	128.33	129.91	129.17	127.96
10	135.50	135.96	135.40	134.35	133.63	133.25	130.45	129.19	128.35	129.93	128.87	127.86
15	135.33	135.64	135.46	134.19	133.29	132.67	130.15	129.03	128.27	129.13	128.70	127.70
20	135.15	135.44	135.09	134.20	133.00	132.31	129.90	128.86	128.19	129.54	128.48	128.15
25	134.98	136.36	134.90	135.42	132.71	131.73	129.58	128.69	128.36	129.65	128.27	128.52
EOM	134.79	136.00	134.71	134.80	132.55	131.09	129.48	128.47	129.01	129.39	128.03	129.55
MAX	136.12	136.51	135.95	135.65	134.71	134.14	131.05	129.46	129.01	130.03	129.38	129.55

CAL YR 1988 MAX 137.93
WTR YR 1989 MAX 136.51

POLK COUNTY

WELL NUMBER.--273929081363801. Altman Deep Well near Avon Park, FL.

LOCATION.--Lat 27°39'29", long 81°36'38" in NW¼NW¼ sec.34, T.32 S., R.27 E., Hydrologic Unit 03100101, 0.5 mi north of Hardee-Polk County line, and 11 mi northwest of Avon Park. Owner: Mrs. Etoyle Altman.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, irrigation, artesian well, diameter 6 in., depth 700 ft, cased to 80 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 128.80 ft above National Geodetic Vertical Datum of 1929. Measuring point: Access hole in side of 6 in. casing, 0.20 ft above land-surface datum. Prior to Apr. 27, 1989, end of horizontal discharge pipe, 1.50 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby industrial and irrigation wells.

PERIOD OF RECORD.--July 1970 to January 1985 (bimonthly); April to September 1989 (bimonthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 89.28 ft NGVD, Mar. 11, 1983; lowest measured, 60.64 ft NGVD, May 6, 1981.

ELEVATION, IN FEET NGVD, APRIL TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
APR			JUN		
27...	1008	71.20	08...	0959	66.19
MAY			SEP		
11...	1415	66.16	14...	1405	79.52

WELL NUMBER.--274151081513201. Gardinier Deep Well near Bowling Green, FL.

LOCATION.--Lat 27°41'51", long 81°51'32", in SW¼NW¼ sec.18, T.32 S., R.25 E., Hydrologic Unit 03100101, 3.5 mi south of State Highway 630, and 5.0 mi northwest of Bowling Green. Owner: Unknown.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused irrigation, artesian well, diameter 8 in., depth 908 ft, cased to 410 ft.

INSTRUMENTATION.--Monthly measurement with steel tape.

DATUM.--Land-surface datum is 133.00 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District). Measuring point: Top of shelter floor, 3.30 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby industrial and irrigation wells.

PERIOD OF RECORD.--October 1972 to September 1981; October 1981 to September 1983 (bimonthly); October 1983 to current year (monthly), incomplete. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 72.98 ft NGVD, Nov 1, 1982; lowest daily maximum water level, 24.51 ft NGVD, May 10, 1975.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
12...	1217	61.40	03...	1155	45.59
NOV			18...	1155	40.07
09...	1030	55.44	JUN		
DEC			06...	0727	35.78
13...	1610	58.35	JUL		
JAN			13...	1500	48.79
10...	1100	56.24	AUG		
FEB			16...	1000	53.26
13...	1410	51.17	SEP		
MAR			14...	1515	55.68
17...	1105	48.53			
APR					
05...	1540	46.60			

POLK COUNTY

WELL NUMBER.--274155081573201. Fort Green Springs Road Well near Bradley Junction, FL.

LOCATION.--Lat 27°41'55", long 81°57'32", in SE¼SE¼ sec.13, T.32 S., R.23 E., Hydrologic Unit 03100101, 3.0 mi south of Brewster on Fort Green Springs Road, and 3.0 mi south of Bradley Junction. Owner: U.S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 302 ft, cased to 280 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 134.48 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District). Measuring point: Top of 8 in. casing extension, 2.45 ft above land-surface datum. Prior to Sept. 17, 1971, top of casing, 2.00 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby industrial wells.

PERIOD OF RECORD.--August 1964 to September 1976 (bimonthly), incomplete; October 1976 to September 1980 (monthly); October 1980 to current year (bimonthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 72.76 ft NGVD, Oct. 1, 1964; lowest measured, 25.76 ft NGVD, May 14, 1975.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
11...	0705	61.57	18...	1025	39.16
DEC			JUN		
06...	0718	57.48	06...	0658	34.96
FEB			AUG		
14...	0735	49.77	16...	0915	52.40
APR			SEP		
11...	0725	44.74	14...	1015	54.74

WELL NUMBER.--274225081315201. USGS Shallow Well P-48 near Frostproof, FL.

LOCATION.--Lat 27°42'26", long 81°31'52", in SW¼SW¼ sec.9, T.32 S., R.28 E., Hydrologic Unit 03090101, 60 ft east of Alternate U. S. Highway 27, and 2.7 mi south of Frostproof. Owner: U. S. Geological Survey.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 62 ft, cased to 59 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 144.31 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.15 ft above land-surface datum. Prior to Oct. 1, 1977, top of casing, 3.00 ft above land-surface datum.

REMARKS.--Extremes may have been exceeded during periods of missing record.

PERIOD OF RECORD.--October 1948 to current year, incomplete. Records of water levels prior to January 1974 are available in files of the Geological Survey. Prior to Oct. 1, 1977, published as USGS Observation Well P48 near Lake Wales.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 106.23 ft NGVD, Oct. 7, 1948; lowest, 96.16 ft NGVD, May 30, 1982.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	101.55	101.18	100.82	100.22	99.83	99.70	99.66	99.29	98.99	99.98	99.61	99.56
10	101.38	101.13	100.72	100.14	99.79	99.68	99.64	99.22	98.95	100.07	99.54	99.48
15	101.38	101.05	100.61	100.07	99.73	99.67	99.63	99.18	98.90	100.05	99.59	99.42
20	101.33	101.01	100.51	100.01	99.72	99.65	99.54	99.14	98.84	99.92	99.54	99.36
25	101.24	101.05	100.41	99.99	99.68	99.67	99.47	99.10	99.01	99.78	99.49	99.45
EOM	101.14	100.95	100.30	99.91	99.66	99.68	99.36	99.04	99.59	99.65	99.59	99.48
MAX	101.62	101.18	100.92	100.28	99.89	99.72	99.67	99.34	99.59	100.07	99.65	99.60

CAL YR 1988 MAX 101.62
WTR YR 1989 MAX 101.62

POLK COUNTY

WELL NUMBER.--274409082015001. Bethlehem Road Deep Well near Bradley Junction, FL.

LOCATION.--Lat 27°44'09", long 82°01'50", in SW¼SE¼ sec.32, T.31 S., R.23 E., Hydrologic Unit 03100204, 0.4 mi north of Bethlehem Road, and 6.0 mi southwest of Bradley Junction. Owner: Unknown.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused irrigation, artesian well, diameter 12 in., depth 1,000 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 124.50 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 0.33 ft above land-surface datum. Prior to July 15, 1981, top of recorder shelter floor, 0.50 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby industrial and irrigation wells.

PERIOD OF RECORD.--September 1972 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 64.74 ft NGVD, Oct. 3, 1982; lowest, 16.60 ft NGVD, May 9, 1975.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	50.56	40.33	44.52	45.61	41.05	29.84	32.87	31.50	21.98	34.82	41.09	43.74
10	49.63	41.79	44.79	43.58	39.27	32.32	33.47	29.92	23.97	36.16	41.65	45.21
15	48.48	41.89	45.35	41.86	36.63	33.25	31.78	28.32	25.34	36.74	41.40	44.39
20	46.40	41.34	45.70	40.32	34.95	32.98	31.88	25.76	26.18	37.96	41.43	44.55
25	44.66	41.70	46.20	40.75	30.79	33.54	32.73	23.93	28.96	38.43	42.71	44.65
EOM	41.23	42.90	45.05	42.50	29.50	34.03	30.94	22.98	30.92	39.87	42.34	45.52
MAX	51.21	42.90	46.29	45.75	42.23	34.04	33.70	31.50	30.92	39.87	42.74	45.52

CAL YR 1988 MAX 54.67
WTR YR 1989 MAX 51.21

WELL NUMBER.--274545081342501. ROMP CL-3 FLRD Well near Frostproof, FL.

LOCATION.--Lat 27°45'45", long 81°34'25", in NE¼NW¼ sec.25, T.31 S., R.27 E., Hydrologic Unit 03090101, 0.5 mi north of State Road 630A, 1.0 mi east of U. S. Highway 27, and 2.7 mi west of Frostproof. Owner: Southwest Florida Water Management District.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 10 in., depth 440 ft, cased to 228 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 123.03 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District). Measuring point: Top of recorder shelter floor, 1.90 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby irrigation wells. Extremes may have been exceeded during periods of missing record.

PERIOD OF RECORD.--October 1988 to September 1989.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 82.91 ft NGVD, Oct. 10, 1988; lowest, 62.74 ft NGVD, May 27, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	81.41	74.32	e82.45	77.15	e76.50	72.19	72.09	73.13	66.61	77.68	77.77	80.89
10	82.91	78.49	e79.70	77.07	e75.25	75.94	70.63	e68.70	70.88	78.45	73.82	81.13
15	77.05	79.47	82.11	e76.80	73.36	77.16	69.49	e68.10	71.60	78.61	78.62	75.84
20	75.89	77.21	80.94	e74.90	72.96	76.63	73.71	e65.30	70.84	78.44	79.67	76.75
25	75.14	e79.60	81.76	e78.60	66.37	74.21	75.68	65.41	73.81	79.32	80.48	79.04
EOM	73.82	e81.90	78.71	e79.60	67.01	72.30	73.06	64.92	75.65	77.80	79.37	81.15
MAX	82.91	81.90	82.55	79.90	77.90	77.59	75.87	73.29	75.65	79.33	80.59	81.40

WTR YR 1989 MAX 82.91

e Estimated

POLK COUNTY

WELL NUMBER.--274545081342503. ROMP CL-3 NRSD Well near Frostproof, FL.

LOCATION.--Lat 27°45'45", long 81°34'25", in NE¼NW¼ sec.25, T.31 S., R.27 E., Hydrologic Unit 03090101, 0.5 mi north of State Road 630A, 1.0 mi east of U. S. Highway 27, and 2.7 mi west of Frostproof. Owner: Southwest Florida Water Management District.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 50 ft, cased to 20 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 123.31 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District. Measuring point: Top of recorder shelter floor, 1.90 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby irrigation wells.

PERIOD OF RECORD.--October 1988 to September 1989.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 117.60 ft NGVD, Nov. 4, 1988; lowest, 115.91 ft NGVD, June 4, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	117.37	117.59	117.09	116.84	117.14	117.11	116.72	e116.42	115.94	116.94	116.51	116.68
10	117.23	117.38	117.01	116.77	117.05	117.06	116.58	e116.36	116.21	116.65	116.45	116.50
15	117.09	117.22	117.21	116.83	116.96	116.89	116.75	e116.31	116.05	117.04	116.81	116.37
20	116.99	117.10	117.04	116.99	116.89	116.81	116.77	e116.26	115.92	116.76	116.93	116.28
25	116.94	117.47	116.99	117.39	116.82	116.90	116.61	116.16	116.73	116.90	116.95	116.52
EOM	117.00	117.24	116.91	117.19	116.75	116.79	116.47	116.00	116.75	116.68	116.68	116.39
MAX	117.57	117.60	117.38	117.46	117.17	117.17	116.79	116.52	116.76	117.10	117.05	116.68

WTR YR 1989 MAX 117.60

e Estimated

WELL NUMBER.--274547081470901. ROMP 45 Hawthorn Well at Ft. Meade, FL.

LOCATION.--Lat 27°45'47", long 81°47'09", in SE¼SW¼ sec.23, T.31 S., R.25 E., Hydrologic Unit 03100101, 0.1 mi north of Ninth Street, and 0.8 mi east of U. S. Highway 17 in Ft. Meade. Owner: Southwest Florida Water Management District.

AQUIFER.--Hawthorn formation of Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 192 ft, cased to 110 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 121.58 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 2.50 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--February 1976 to current year (incomplete). Prior to October 1979, published as Ft. Meade BM Well at Ft. Meade.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 78.46 ft NGVD, Apr. 17, 1983; lowest, 37.14 ft NGVD, May 8, 1976.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	66.82	---	62.75	61.99	59.61	51.77	52.25	51.33	43.68	51.68	58.39	59.89
10	66.85	61.33	62.73	61.22	58.26	---	51.90	50.40	---	53.50	57.99	60.81
15	64.88	61.06	63.39	59.12	56.47	---	48.83	47.18	43.73	54.18	58.49	59.93
20	63.27	59.57	63.20	59.09	54.57	52.59	51.88	46.02	---	55.28	58.74	61.03
25	61.73	61.33	63.80	60.12	49.92	52.21	51.88	43.81	---	56.59	58.77	61.23
EOM	58.01	61.96	52.93	61.07	50.07	52.22	50.44	43.79	---	57.24	59.39	61.78
MAX	66.98	---	64.12	62.91	60.82	---	52.40	51.42	---	---	59.39	61.78

POLK COUNTY

WELL NUMBER.--274547081470902. ROMP 45 Suwannee Well at Ft. Meade, FL.

LOCATION.--Lat 27°45'47", long 81°47'09", in SE¼SW¼ sec.23, T.31 S., R.25 E., Hydrologic Unit 03100101, 0.1 mi north of Ninth Street, and 0.8 mi east of U. S. Highway 17 in Ft. Meade. Owner: Southwest Florida Water Management District.

AQUIFER.--Suwannee limestone of Oligocene Age, Geologic Unit 123 SWNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 8 in., depth 440 ft, cased to 330 ft.

INSTRUMENTATION.--Monthly measurement with steel tape.

DATUM.--Land-surface datum is 122.07 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of shelter floor, 4.37 ft above land-surface datum. Prior to April 1981, top of recorder shelter floor, 4.20 ft above land-surface datum.

PERIOD OF RECORD.--August 1980 to September 1983; October 1983 to current year (monthly).

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 74.90 ft NGVD, Apr. 14, 1983; lowest, 31.63 ft NGVD, May 16, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
12...	1305	61.81	03...	1250	46.18
NOV			17...	1355	41.28
09...	1125	56.16	JUN		
DEC			06...	1540	36.47
13...	1350	59.02	JUL		
JAN			10...	1130	48.48
10...	1150	56.66	AUG		
FEB			17...	1255	53.86
13...	1455	51.85	SEP		
MAR			05...	1515	55.89
17...	1045	49.18	13...	1400	55.93
APR					
05...	1335	47.11			

WELL NUMBER.--274547081470903. ROMP 45 Avon Park Well at Ft. Meade, FL.

LOCATION.--Lat 27°45'47", long 81°47'09", in SE¼SW¼ sec.23, T.31 S., R.25 E., Hydrologic Unit 03100101, 0.1 mi north of Ninth Street, and 0.8 mi east of U. S. Highway 17 in Ft. Meade. Owner: Southwest Florida Water Management District.

AQUIFER.--Avon Park formation of Eocene Age, Geologic Unit 124 AVPK.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 8 in., depth 757 ft, cased to 680 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 122.16 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.22 ft above land-surface datum. Prior to Feb. 19, 1981, top of recorder shelter floor, 3.80 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--August 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 74.78 ft NGVD, Apr. 15, 1983; lowest, 31.75 ft NGVD, May 16, 1981.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	62.76	54.92	58.81	58.28	55.56	46.75	47.39	46.40	37.03	46.35	53.94	55.74
10	63.08	56.52	58.82	57.12	53.35	48.98	47.07	45.38	37.92	48.37	53.55	56.63
15	61.20	56.73	59.22	55.12	51.61	50.04	45.19	42.88	38.37	49.24	53.77	55.76
20	58.89	55.40	58.83	54.34	50.14	49.18	47.13	40.03	38.39	50.26	53.78	56.79
25	57.36	56.64	59.85	55.45	46.62	47.95	47.48	38.30	40.62	51.65	54.10	56.95
EOM	54.58	57.69	58.66	56.68	44.59	47.23	45.15	37.23	43.60	52.71	54.97	57.84
MAX	63.10	57.69	60.38	59.06	56.58	50.04	47.63	46.40	43.60	52.71	54.97	57.84

CAL YR 1988 MAX 66.36
WTR YR 1989 MAX 63.10

POLK COUNTY

WELL NUMBER.--274730081333801. ROMP 55 FLRD Well near Babson Park, FL.

LOCATION.--Lat 27°47'30", long 81°33'38", in NW¼NE¼ sec.18, T.31 S., R.28 E., Hydrologic Unit 03090101, 300 ft southwest of Breezy Point Road, 2.5 mi west of Alternate U.S. Highway 27, and 7.3 mi southwest of Babson Park. Owner: Southwest Florida Water Management District.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 10 in., depth 1200 ft, cased to 212 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 121.50 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District). Measuring point: Top of recorder shelter floor 2.3 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby irrigation wells.

PERIOD OF RECORD.--February to September 1989 (incomplete).

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 83.10 ft NGVD, Sept. 30, 1989; lowest, 67.06 ft NGVD, May 13, 1989.

ELEVATION (FEET NGVD), FEBRUARY TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	74.89	74.14	76.52	70.56	79.58	---	82.69
10	---	---	---	---	76.49	78.47	72.97	71.44	73.60	80.47	---	82.46
15	---	---	---	---	74.24	79.33	72.80	71.47	73.72	---	---	77.15
20	---	---	---	---	76.15	79.49	76.37	68.88	72.29	---	81.73	78.79
25	---	---	---	---	67.50	77.00	78.05	69.87	75.59	---	82.57	80.98
EOM	---	---	---	---	68.90	72.36	75.76	67.56	77.63	---	79.46	83.10
MAX	---	---	---	---	---	79.74	78.14	76.52	77.63	---	---	83.10

WELL NUMBER.--274730081333802. ROMP 55 NRSD Well near Babson Park, FL.

LOCATION.--Lat 27°47'30", long 81°33'38", in NW¼NE¼ sec.18, T.31 S., R.28 E., Hydrologic Unit 03090101, 300 ft southwest of Breezy Point Road, 2.5 mi west of Alternate U.S. Highway 27, and 7.3 mi southwest of Babson Park. Owner: Southwest Florida Water Management District.

AQUIFER.--Surficial aquifer of Quaternary Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 73 ft, cased to 23 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 121.59 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District). Measuring point: Top of recorder shelter floor, 1.1 ft above land-surface datum.

PERIOD OF RECORD.--November 1988 to September 1989 (incomplete).

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 115.37 ft NGVD, Jan. 23, 1989; lowest, 114.67 ft NGVD, June 22, 1989.

ELEVATION (FEET NGVD), NOVEMBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	115.02	115.18	115.22	115.14	115.05	115.01	114.72	115.13	---	115.08
10	---	---	114.98	115.16	115.17	115.13	115.07	114.94	114.85	115.06	---	115.02
15	---	---	115.09	115.13	115.13	115.11	115.14	114.91	114.77	---	---	114.96
20	---	---	115.03	115.15	115.09	115.08	115.15	114.87	114.69	---	---	114.98
25	---	115.14	114.98	115.35	115.05	115.10	115.10	114.84	115.09	---	---	115.23
EOM	---	115.09	114.96	115.28	115.04	115.07	115.04	114.77	115.00	---	115.08	115.20
MAX	---	---	115.16	115.37	115.27	115.15	115.15	115.05	115.09	---	---	115.25

POLK COUNTY

WELL NUMBER.--274926081355301. ROMP 44 Floridan Well near Babson Park, FL.

LOCATION.--Lat 27°49'26", long 81°35'53", in SE¼NE¼ sec.34, T.30 S., R.27 E., Hydrologic Unit 03090101, 0.25 mi west of U. S. Highway 27, and 4.6 mi west of Babson Park. Owner: Southwest Florida Water Management District.

AQUIFER.--Upper Floridan aquifer of Oligocene and Eocene Age, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 10 in., depth 402 ft, cased to 232 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 132.83 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.55 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby wells.

PERIOD OF RECORD.--January 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 91.75 ft NGVD, Sept. 14, 1988; lowest, 72.63 ft NGVD, May 21, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	86.68	80.91	87.79	86.61	85.17	77.64	79.59	79.86	73.86	81.89	84.99	85.59
10	88.08	83.79	87.36	84.23	83.67	81.70	78.68	79.19	75.26	82.78	83.50	85.64
15	85.92	85.45	88.17	83.59	81.04	83.19	76.82	75.49	75.85	83.43	83.69	83.84
20	82.98	84.46	87.00	83.21	80.43	82.63	79.66	73.07	74.74	83.96	84.41	82.80
25	81.21	85.31	87.50	84.97	76.66	80.57	80.77	74.49	76.75	84.51	85.36	84.10
EOM	79.11	86.87	86.59	86.76	73.91	79.72	78.85	73.78	79.89	84.55	85.39	86.13
MAX	88.08	86.87	88.42	86.94	86.81	83.19	80.84	80.05	79.89	84.56	85.60	86.13

CAL YR 1988 MAX 91.75
WTR YR 1989 MAX 88.42

WELL NUMBER.--274926081355302. ROMP 44 NRSD Well near Babson Park, FL.

LOCATION.--Lat 27°49'26", long 81°35'53", in SE¼NE¼ sec.34, T.30 S., R.27 E., Hydrologic Unit 03090101, 0.25 mi west of U. S. Highway 27, and 4.6 mi west of Babson Park. Owner: Southwest Florida Water Management District.

AQUIFER.--Surficial aquifer of Quaternary Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 75 ft, cased to 25 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 132.94 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.5 ft above land-surface datum.

PERIOD OF RECORD.--January to September 1989 (incomplete).

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 128.22 ft NGVD, Jan. 22, 1989; lowest, 125.34 ft NGVD, June 22, 1989.

ELEVATION (FEET NGVD), JANUARY TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	127.52	127.50	126.77	126.52	125.89	127.70	127.57	126.78
10	---	---	---	---	127.35	127.58	126.49	126.12	125.68	127.33	e127.20	126.51
15	---	---	---	127.27	127.16	127.32	127.02	125.87	125.50	127.59	e127.10	126.18
20	---	---	---	127.47	127.03	127.10	126.94	125.64	125.37	127.78	127.77	126.01
25	---	---	---	128.00	126.98	126.95	126.61	126.84	127.03	127.63	127.46	126.67
EOM	---	---	---	127.70	126.91	126.84	126.76	126.33	127.57	127.93	127.06	126.82
MAX	---	---	---	---	127.66	127.64	127.04	126.92	127.57	128.11	127.85	126.98

e Estimated

POLK COUNTY

WELL NUMBER.--275009081540901. Pebbledale Road Well near Pierce, FL.

LOCATION.--Lat 27°50'09", long 81°54'09", in NE¼NW¼ sec.34, T.30 S., R.24 E., Hydrologic Unit 03100101, 300 ft north of State Highway 640, and 4.3 mi east of Pierce. Owner: U.S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 303 ft, cased to 288 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 167.35 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District). Measuring point: Top of shelter floor, 2.72 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby industrial wells.

PERIOD OF RECORD.--August 1964 to August 1972 (bimonthly); September 1972 to April 1986; May 1986 to current year (bimonthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 74.95 ft NGVD, Apr. 13, 14, 1983; lowest, 24.80 ft NGVD, May 10, 1975.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
12...	0940	62.23	17...	1045	41.89
DEC			JUN		
13...	1105	58.84	06...	1223	36.87
FEB			AUG		
13...	1150	53.42	17...	1015	53.74
23...	1220	49.87	SEP		
APR			14...	1205	55.75
05...	1110	47.30			

POLK COUNTY

WELL NUMBER.--275023081321601. ROMP C1-1 FLRD Well at Babson Park, FL.

LOCATION.--Lat 27°50'23", long 81°32'16", in SE¼NW¼ sec.29, T.30 S., R.28 E., Hydrologic Unit 03090101, 150 ft south of North Crooked Lake Road, 0.1 mi west of Alternate U.S. Highway 27, and 0.9 mi northeast of Babson Park. Owner: Southwest Florida Water Management District.

AQUIFER.--Floridan aquifer system of Eocene Age, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 10 in., depth 315 ft, cased to 220 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 122.19 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District). Measuring point: Top of recorder shelter floor, 1.0 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby wells.

PERIOD OF RECORD.--October 1988 to September 1989.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 92.34 ft NGVD, Dec. 16, 1988; lowest, 82.60 ft NGVD, Feb. 25, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	91.56	90.42	92.30	87.79	89.08	89.33	86.18	88.58	85.72	89.87	89.24	89.93
10	91.88	91.68	91.40	88.94	87.55	90.69	87.48	83.40	88.14	89.64	85.68	89.02
15	88.73	91.30	92.26	89.77	85.41	89.66	87.38	86.00	85.63	89.92	89.23	83.56
20	86.60	88.48	91.18	87.97	88.59	89.42	89.47	84.79	85.04	88.85	89.98	87.29
25	87.26	91.80	92.01	91.39	82.60	88.54	88.36	88.14	88.41	89.83	89.83	89.49
EOM	88.19	92.27	89.86	91.50	85.46	86.33	87.47	84.97	88.98	89.73	88.22	90.14
MAX	92.00	92.27	92.34	91.73	91.21	90.88	89.77	88.58	88.98	90.02	90.15	90.14

WTR YR 1989 MAX 92.34

WELL NUMBER.--275023081321602. ROMP C1-1 NRSD Well at Babson Park, FL.

LOCATION.--Lat 27°50'23", long 81°32'16", in SE¼NW¼ sec.29, T.30 S., R.28 E., Hydrologic Unit 03090101, 150 ft south of North Crooked Lake Road, 0.1 mi west of Alternate U.S. Highway 27, and 0.9 mi northeast of Babson Park. Owner: Southwest Florida Water Management District.

AQUIFER.--Surficial aquifer system of Quaternary Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 50 ft, cased to 29 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 122.20 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District). Measuring point: Top of recorder shelter floor, 1.6 ft above land-surface datum.

PERIOD OF RECORD.--October 1988 to September 1989.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 103.57 ft NGVD, Oct. 11, 12, 15, 17, 18, 19, 1988; lowest, 100.47 ft NGVD, June 24, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	103.53	103.37	103.12	102.83	102.62	102.23	101.79	101.34	100.81	100.64	100.73	100.83
10	103.56	103.31	103.08	102.79	102.57	102.17	101.71	101.26	100.72	100.68	100.71	100.80
15	103.57	103.25	103.07	102.74	102.52	102.08	101.63	101.16	100.63	100.70	100.68	100.75
20	103.56	103.21	103.01	102.68	102.45	102.00	101.57	101.07	100.58	100.71	100.72	100.63
25	103.49	103.18	102.96	102.69	102.37	101.95	101.49	100.99	100.53	100.68	100.81	100.65
EOM	103.35	103.15	102.89	102.66	102.32	101.87	101.42	100.89	100.54	100.68	100.86	100.69
MAX	103.57	103.37	103.15	102.88	102.66	102.30	101.86	101.40	100.87	100.71	100.86	100.86

WTR YR 1989 MAX 103.57

POLK COUNTY

WELL NUMBER.--275207081411301. R. Perdue Well near Alturas, FL.

LOCATION.--Lat 27°52'07", long 81°41'13", in NW¼SE¼ sec.14, T.30 S., R.26 E., Hydrologic Unit 03100101, 0.2 mi south of Seaboard Coastline Railroad, and 1.8 mi east of Alturas. Owner: R. Perdue.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, irrigation, artesian well, diameter 10 in., depth 783 ft, cased to 266 ft.

INSTRUMENTATION.--Monthly measurement with steel tape.

DATUM.--Land-surface datum is 138.04 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of access hole in pump base, 0.65 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby irrigation wells. Record is equivalent to that for Perdue Well (275211081425501), available February 1955 to May 1975.

PERIOD OF RECORD.--January 1976 to current year (monthly), discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 88.57 ft NGVD, Apr. 5, 1983; lowest measured, 51.19 ft NGVD, May 20, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAR		
13...	0725	75.13	16...	1330	69.44
NOV			APR		
10...	0730	75.11	06...	1730	67.37
DEC			MAY		
14...	1250	77.90	04...	0825	67.61
JAN			JUN		
11...	0830	73.29	07...	1435	66.31
FEB			JUL		
14...	1720	69.92	10...	1435	69.30

WELL NUMBER.--275314081514201. ROMP 59 Avon Park Well at Bartow, FL.

LOCATION.--Lat 27°53'14", long 81°51'42", in SE¼NE¼ sec.12, T.30 S., R.24 E., Hydrologic Unit 03100101, 950 ft west of State Highway 555, 0.6 mi south of State Highway 60, and 0.8 mi west of Bartow. Owner: Southwest Florida Water Management District.

AQUIFER.--Avon Park formation of Eocene Age, Geologic Unit 124 AVPK.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 12 in., depth 1,050 ft, cased to 200 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 117.41 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of coupling, 2.00 ft above land-surface datum.

REMARKS.--Well also sampled for water quality.

PERIOD OF RECORD.--February 1977 to current year. Prior to October 1979, published as Bartow Avon Park Well at Bartow.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 75.65 ft NGVD, Apr. 20, 1983; lowest, 33.33 ft NGVD, May 16, 1981.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	e64.40	56.70	60.47	60.02	57.29	48.98	49.18	48.21	39.26	48.36	55.20	57.27
10	e64.30	58.10	60.26	58.74	55.35	50.86	48.95	47.13	40.05	49.88	55.01	57.86
15	62.78	58.33	60.74	57.12	53.62	51.73	47.49	45.02	40.17	50.76	55.19	57.32
20	60.82	57.28	60.37	56.34	52.40	50.93	49.14	42.12	40.82	51.88	55.16	58.16
25	59.26	58.44	61.37	57.52	48.82	49.84	49.12	40.47	43.55	53.11	55.44	58.51
EOM	56.51	59.45	60.26	58.42	47.26	49.09	47.18	39.56	45.99	54.16	56.32	59.22
MAX	64.50	59.45	61.66	60.61	58.29	51.75	49.62	48.34	45.99	54.16	56.32	59.22

CAL YR 1988 MAX 67.65
WTR YR 1989 MAX 64.50

e Estimated

POLK COUNTY

WELL NUMBER.--275314081514202. ROMP 59 Hawthorn Well at Bartow, FL.

LOCATION.--Lat 27°53'14", long 81°51'42", in SE¼NE¼ sec.12, T.30 S., R.24 E., Hydrologic Unit 03100101, 930 ft west of State Highway 555, 0.6 mi south of State Highway 60, and 0.8 mi west of Bartow. Owner: Southwest Florida Water Management District.

AQUIFER.--Hawthorn formation of Miocene Age, Geologic Unit 122 HTRN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 142 ft, cased to 122 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 117.84 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.00 ft above land-surface datum.

PERIOD OF RECORD.--February 1977 to current year. Prior to October 1979, published as Bartow Hawthorn Well at Bartow.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 92.46 ft NGVD, Apr. 15, 16, 1983; lowest, 74.85 ft NGVD, June 15, 16, 17, 18, 1977.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	85.69	85.08	84.30	84.50	83.88	82.97	81.64	80.31	78.82	77.92	81.07	82.84
10	85.89	84.84	84.33	84.38	83.79	82.70	81.48	80.11	78.56	78.07	81.68	83.12
15	85.97	84.62	84.45	84.27	83.61	82.47	81.23	79.89	78.29	78.29	82.11	83.38
20	85.80	84.47	84.49	84.15	83.46	82.27	81.02	79.69	78.07	78.62	82.36	83.62
25	85.70	84.36	84.53	84.06	83.32	82.13	80.81	79.47	77.95	79.30	82.52	83.88
EOM	85.32	84.33	84.51	83.95	83.19	81.90	80.50	79.13	77.88	80.29	82.67	84.26
MAX	85.97	85.27	84.53	84.51	83.94	83.15	81.84	80.45	79.08	80.29	82.67	84.26

CAL YR 1988 MAX 86.27
WTR YR 1989 MAX 85.97

WELL NUMBER.--275314081514203. ROMP 59 Upper Hawthorn Well at Bartow, FL.

LOCATION.--Lat 27°53'14", long 81°51'42", in SE¼NE¼ sec.12, T.30 S., R.24 E., Hydrologic Unit 03100101, 970 ft west of State Highway 555, 0.6 mi south of State Highway 60, and 0.8 mi west of Bartow. Owner: Southwest Florida Water Management District.

AQUIFER.--Hawthorn formation of Miocene Age, Geologic Unit 122 HTRN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 60 ft, cased to 50 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 118.71 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of shelter floor, 3.00 ft above land-surface datum.

PERIOD OF RECORD.--February 1977 to September 1979; October 1979 to current year (bimonthly). Prior to October 1979, published as Bartow Upper Hawthorn Well at Bartow.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 92.29 ft NGVD, Oct. 13, 1982; lowest daily maximum water level, 75.24 ft NGVD, June 13, 16, 17, 18, 1977.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
14...	1600	87.33	17...	1110	80.48
DEC			JUN		
15...	1455	85.82	08...	1430	79.30
FEB			AUG		
15...	1010	83.32	15...	1525	84.12
APR			SEP		
07...	0830	82.46	13...	1045	85.17

POLK COUNTY

WELL NUMBER.--275326081585801. ROMP 60 Deep Well at Mulberry, FL.

LOCATION.--Lat 27°53'26", long 81°58'58", in SE¼NW¼ sec.11, T.30 S., R.23 E., Hydrologic Unit 03100204, 0.3 mi south of State Highway 60, and 0.5 mi west of Mulberry. Owner: Southwest Florida Water Management District.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused industrial, artesian well, diameter 10 in., depth 710 ft, cased to 237 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 99.72 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.00 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby industrial and irrigation wells. Extremes may have been exceeded during periods of missing record.

PERIOD OF RECORD.--February 1955 to December 1959 (bimonthly); February 1960 to February 1961 (annually); March 1961 to current year, incomplete. Records of water levels prior to January 1974 are available in files of the Geological Survey. Prior to October 1979, published as Mulberry Deep Well at Mulberry.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 87.07 ft NGVD, Oct. 23, 1959; lowest daily maximum water level, 25.90 ft NGVD, May 9, 1975.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	63.09	55.31	58.90	58.95	56.15	47.39	47.94	46.89	38.12	47.25	53.87	55.86
10	63.12	56.58	58.96	57.72	54.34	49.30	47.78	46.12	39.03	48.63	53.75	56.64
15	61.62	56.88	59.39	56.11	52.46	50.19	46.35	43.91	39.23	49.59	53.91	56.09
20	59.69	55.89	59.00	55.32	51.06	49.51	47.74	41.27	39.97	50.57	53.90	56.67
25	58.07	56.88	59.94	56.07	48.44	48.50	47.98	39.60	42.52	51.76	54.23	56.89
EOM	55.27	57.92	59.13	57.14	45.86	48.03	45.92	38.64	44.81	52.86	54.93	57.74
MAX	63.22	57.92	60.23	59.36	57.03	50.19	48.21	46.89	44.81	52.86	54.93	57.74

CAL YR 1988 MAX 66.63
WTR YR 1989 MAX 63.22

WELL NUMBER.--275348081335701. ROMP 57A Ocala Well near Lake Wales, FL.

LOCATION.--Lat 27°53'48", long 81°33'55", in SE¼SE¼ sec.1, T.30 S., R.27 E., Hydrologic Unit 03090101, 300 ft west of 11th Street, 0.5 mi north of State Highway 60, and 1.4 mi east of Lake Wales. Owner: Southwest Florida Water Management District.

AQUIFER.--Floridan aquifer system of Eocene Age, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 315 ft, cased to 274 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 197.58 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District). Measuring point: Top of recorder shelter floor, 3.10 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby well.

PERIOD OF RECORD.--November 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 98.63 ft NGVD, Mar. 14, 1988; lowest, 91.92 ft NGVD, June 18, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	97.62	96.95	97.93	95.73	95.95	96.56	94.59	95.36	93.36	95.63	95.49	95.53
10	97.69	97.44	97.49	95.10	95.93	97.11	94.26	92.47	94.19	95.10	94.33	94.99
15	94.99	97.24	97.71	96.63	95.52	96.22	94.45	93.62	92.63	95.30	95.46	92.74
20	95.07	95.92	97.15	95.95	95.76	95.70	95.52	92.02	92.12	95.03	95.47	94.46
25	95.24	98.15	97.78	97.47	93.74	95.63	95.00	94.34	94.48	95.41	95.55	95.62
EOM	95.20	98.09	96.39	97.52	94.71	94.34	94.85	93.72	95.14	95.87	94.75	95.45
MAX	97.82	98.35	98.02	97.69	97.22	97.13	95.65	95.53	95.14	95.87	95.83	95.71

CAL YR 1988 MAX 98.63
WTR YR 1989 MAX 98.35

POLK COUNTY

WELL NUMBER.--275348081335703. ROMP 57A NRSD Well near Lake Wales, FL.

LOCATION.--Lat 27°53'48", long 81°33'57", in SE¼SE¼ sec.1, T.30 S., R.27 E., Hydrologic Unit 03090101, 300 ft west of 11th Street, 0.5 mi north of State Highway 60, and 1.4 mi east of Lake Wales. Owner: Southwest Florida Water Management District.

AQUIFER.--Surficial aquifer system of Quaternary Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 135 ft, cased to 114 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 197.59 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District). Measuring point: Top of recorder shelter floor, 3.25 ft above land-surface datum.

PERIOD OF RECORD.--November 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 101.90 ft NGVD, Dec. 16-26, 1988; lowest, 99.12 ft NGVD, Sept. 25, 26, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	101.70	101.56	101.84	101.82	101.60	101.21	100.82	100.36	99.80	99.27	99.29	99.36
10	101.75	101.65	101.87	101.69	101.49	101.18	100.73	100.29	99.69	99.28	99.35	99.36
15	101.71	101.73	101.89	101.59	101.44	101.14	100.61	100.21	99.61	99.25	e99.35	99.28
20	101.69	101.74	101.90	101.55	101.39	101.08	100.54	100.12	99.49	99.23	99.30	99.18
25	101.65	101.74	101.90	101.54	101.32	101.00	100.48	100.00	99.38	99.20	99.32	99.12
EOM	101.57	101.80	101.87	101.63	101.28	100.92	100.41	99.89	99.29	99.20	99.37	99.13
MAX	101.76	101.80	101.90	101.86	101.63	101.27	100.90	100.40	99.87	99.28	99.87	99.37

CAL YR 1988 MAX 101.90
WTR YR 1989 MAX 101.90

e Estimated

WELL NUMBER.--275411081372001. ROMP 57 Floridan Well near Lake Wales, FL.

LOCATION.--Lat 27°54'11", long 81°37'20", in NE¼NE¼ sec.4, T.30 S., R.27 E., Hydrologic Unit 03100101, 40 ft south of State Highway 60, 1.5 mi west of U. S. Highway 27, and 2.0 mi west of Lake Wales. Owner: Southwest Florida Water Management District.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 7 in., depth 634 ft, cased to 160 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 128.22 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 4.21 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby well.

PERIOD OF RECORD.--July 1981 to current year. Prior to Oct. 1, 1982, published as ROMP 57-1 Floridan Well near Lake Wales.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 108.54 ft NGVD, Mar. 29, 1983; lowest, 87.93 ft NGVD, May 30, 1986.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	99.74	96.27	101.78	99.83	99.25	97.82	95.77	96.88	92.61	100.03	100.27	99.54
10	100.14	99.31	100.32	98.12	97.72	100.26	94.74	95.02	93.94	98.37	96.69	100.25
15	96.65	100.13	102.20	97.53	96.08	100.03	92.96	93.15	93.07	99.03	99.32	94.58
20	96.01	99.67	100.89	98.12	96.61	98.08	96.10	89.52	91.44	99.45	98.42	97.93
25	94.72	102.29	101.58	99.86	92.12	96.83	96.08	93.58	94.80	98.93	100.01	100.10
EOM	93.94	102.57	99.41	101.88	93.00	92.70	93.48	93.66	98.01	100.79	98.46	99.44
MAX	100.48	103.23	102.77	102.02	101.15	100.30	96.79	97.48	98.01	100.79	101.12	100.30

CAL YR 1988 MAX 105.07
WTR YR 1989 MAX 103.23

POLK COUNTY

WELL NUMBER.--275411081372002. ROMP 57 Hawthorn Well near Lake Wales, FL.

LOCATION.--Lat 27°54'11", long 81°37'20", in NE¼NE¼ sec.4, T.30 S., R.27 E., Hydrologic Unit 03100101, 25 ft south of State Highway 60, 1.5 mi west of U. S. Highway 27, and 2.0 mi west of Lake Wales. Owner: Southwest Florida Water Management District.

AQUIFER.--Hawthorn formation of Miocene Age, Geologic Unit 122 HTRN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 7 in., depth 140 ft, cased to 95 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 128.10 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 4.08 ft above land-surface datum.

PERIOD OF RECORD.--July 1981 to current year. Prior to Oct. 1, 1982, published as ROMP 57-2 Hawthorn Well near Lake Wales.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 120.68 ft NGVD, July 29, 1982; lowest, 110.38 ft NGVD, June 8, 1985.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	116.37	115.52	116.67	115.86	115.83	114.74	114.12	113.77	112.49	114.46	115.54	114.79
10	116.39	116.18	116.24	115.47	115.35	115.35	113.84	113.51	112.53	114.29	114.72	114.67
15	115.41	116.27	116.60	115.05	115.12	115.38	113.50	112.97	112.43	114.53	114.87	113.72
20	115.34	115.97	116.23	115.12	114.84	114.75	113.98	112.03	111.99	114.54	114.72	113.87
25	115.12	116.83	116.23	116.07	114.22	114.44	113.91	112.40	112.57	114.27	115.27	114.56
EOM	114.62	116.97	115.82	116.29	113.94	113.94	113.37	112.79	113.59	115.43	114.89	114.74
MAX	116.51	117.07	116.80	116.33	116.18	115.46	114.17	113.83	113.59	115.43	115.58	114.85

CAL YR 1988 MAX 118.82
WTR YR 1989 MAX 117.07

WELL NUMBER.--275411081372003. ROMP 57-3 Shallow Well near Lake Wales, FL.

LOCATION.--Lat 27°54'11", long 81°37'20", in NE¼NE¼ sec.4, T.30 S., R.27 E., Hydrologic Unit 03100101, 40 ft south of State Highway 60, 1.5 mi west of U. S. Highway 27, and 2.0 mi west of Lake Wales. Owner: Southwest Florida Water Management District.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 40 ft, cased to 15 ft.

INSTRUMENTATION.--Monthly measurement with steel tape.

DATUM.--Land-surface datum is 128.82 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 0.75 in. coupling, 1.30 ft above land-surface datum.

PERIOD OF RECORD.--August 1981 to September 1983 (bimonthly); October 1983 to current year (monthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 123.59 ft NGVD, Aug. 4, 1982; lowest measured, 115.08 ft NGVD, June 6, 1985.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			APR		
13...	0830	119.75	06...	1030	117.74
NOV			MAY		
10...	0830	119.70	04...	0810	117.14
DEC			JUN		
14...	1700	120.04	07...	1350	116.27
JAN			JUL		
11...	0815	118.75	10...	1420	117.56
FEB			AUG		
14...	1305	118.70	16...	1435	117.89
MAR			SEP		
16...	1436	118.37	06...	1050	117.78

POLK COUNTY

WELL NUMBER.--275507081353701. ROMP 58 Ocala Well near Lake Wales, FL.

LOCATION.--Lat 27°55'07", long 81°35'37", in NW¼SW¼ sec.35, T.29 S., R.27 E., Hydrologic Unit 03100101, 75 ft west of alternate U. S. Highway 27, 0.2 mi north of Florida Avenue, and 1.3 mi northwest of Lake Wales. Owner: Southwest Florida Water Management District.

AQUIFER.--Floridan aquifer system of Eocene Age, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 10 in., depth 330 ft, cased to 155 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Altitude of land-surface datum is 142 ft, from topographic map. Measuring point: Top of recorder shelter floor, 3.34 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby well.

PERIOD OF RECORD.--November 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 99.75 ft NGVD, Sept. 6, 1988; lowest, 84.86 ft NGVD, May 19, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	95.98	91.34	94.30	92.82	92.43	94.50	91.51	92.50	89.84	95.83	94.70	94.88
10	92.97	92.51	92.68	91.82	92.65	96.24	89.40	89.46	90.03	92.07	90.88	95.41
15	89.78	92.78	96.34	93.38	90.29	94.71	88.26	88.55	89.13	94.44	95.33	88.60
20	89.39	94.67	95.34	91.70	93.19	94.50	90.35	85.26	88.57	94.57	92.40	93.37
25	89.12	98.00	94.58	93.37	89.90	93.49	89.20	90.72	89.93	94.56	95.40	95.39
EOM	89.02	95.49	93.82	94.94	88.25	87.70	88.63	90.65	93.98	96.29	92.69	92.71
MAX	95.98	98.32	96.88	96.27	94.27	96.24	92.12	93.10	93.98	96.29	96.34	95.41

CAL YR 1988 MAX 99.75
WTR YR 1989 MAX 98.32

WELL NUMBER.--275507081353702. ROMP 58 Shallow Well near Lake Wales, FL.

LOCATION.--27°55'07", long 81°35'37", in NW¼SW¼ sec.35, T.29 S., R.27 E., Hydrologic Unit 03100101, 75 ft west of alternate U. S. Highway 27, 0.2 mi north of Florida Avenue, and 1.3 mi northwest of Lake Wales. Owner: Southwest Florida Water Management District.

AQUIFER.--Surficial aquifer system of Quaternary Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 60 ft, cased to 45 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Altitude of land-surface datum is 142 ft, from topographic map. Measuring point: Top of recorder shelter floor, 3.18 ft above land-surface datum.

PERIOD OF RECORD.--November 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 122.78 ft NGVD, Dec. 7, 8, 9, 10, 11, 1987; lowest, 116.67 ft NGVD, June 28, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	121.77	120.98	120.51	119.89	119.36	118.88	118.37	117.76	117.09	116.76	117.73	118.56
10	121.65	120.92	120.40	119.77	119.26	118.83	118.27	117.66	117.00	116.77	118.03	118.60
15	121.47	120.82	120.32	119.66	119.18	118.75	118.17	117.54	116.90	116.80	118.16	118.60
20	121.33	120.70	120.23	119.56	119.09	118.66	118.07	117.41	116.79	116.81	118.24	118.56
25	121.18	120.68	120.13	119.53	119.00	118.58	117.97	117.32	116.72	116.78	118.39	118.62
EOM	121.00	120.62	119.99	119.46	118.95	118.47	117.86	117.20	116.70	117.20	118.48	118.71
MAX	121.80	120.98	120.60	119.97	119.44	118.92	118.44	117.84	117.18	117.20	118.48	118.71

CAL YR 1988 MAX 122.36
WTR YR 1989 MAX 121.80

POLK COUNTY

WELL NUMBER.--275815081444201. Lake McLeod Shallow Well near Eagle Lake, FL.

LOCATION.--Lat 27°58'15", long 81°44'42", in SE¼SE¼ sec.7, T.29 S., R.26 E., Hydrologic Unit 03100101, at intersection Eagle Loop Road and Lake McLeod Road, and 1.0 mi east of Eagle Lake. Owner: U.S. Geological Survey.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 111 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 1.25 in., depth 26 ft, cased to 24 ft.

INSTRUMENTATION.--Monthly measurement with steel tape.

DATUM.--Land-surface datum is 139.25 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.50 ft above land-surface datum.

PERIOD OF RECORD.--May 1965 to September 1983 (bimonthly); October 1983 to current year (monthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 133.59 ft NGVD, Sept. 7, 1988; lowest measured, 122.93 ft NGVD, June 1, 1977.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT 14...	1245	130.25	APR 06...	1625	128.30
NOV 08...	1300	130.16	MAY 04...	0855	128.88
DEC 15...	1135	129.87	JUN 08...	1040	128.10
JAN 11...	1245	129.15	JUL 11...	1000	131.40
FEB 14...	1620	129.31	AUG 16...	1205	129.17
MAR 16...	1310	128.88	SEP 06...	1130	128.42

WELL NUMBER.--275840081391101. Rodgers Well near Waverly, FL.

LOCATION.--Lat 27°58'40", long 81°39'11", in SE¼NW¼ sec.7, T.29 S., R.27 E., Hydrologic Unit 03100101, 300 ft south of State Highway 540, 1.3 mi west of U. S. Highway 27, and 2.3 mi west of Waverly. Owner: H.S. Rodgers.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, irrigation, artesian well, diameter 12 in., depth 612 ft, cased to 91 ft.

INSTRUMENTATION.--Monthly measurement with steel tape.

DATUM.--Land-surface datum is 141.80 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of access hole in pump base, 1.00 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby irrigation wells.

PERIOD OF RECORD.--1958, 1971, 1972 (annually); January 1973 to September 1977 (quarterly); October 1977 to current year (monthly), incomplete. Records of water levels prior to January 1974 are available in files of the Geological Survey. Prior to October 1977, published as Rogers Well near Waverly.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 120.53 ft NGVD, Nov. 5, 1958; lowest measured, 96.64 ft NGVD, May 13, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT 13...	1055	107.96	MAY 03...	1505	106.48
NOV 10...	0900	109.59	16...	0930	101.83
DEC 15...	0730	111.95	JUN 07...	1645	102.35
JAN 11...	1225	107.11	JUL 11...	1015	109.30
FEB 14...	1605	107.47	AUG 16...	1225	108.01
MAR 16...	1500	108.18	SEP 06...	1230	108.93
APR 06...	1120	105.48	12...	1000	107.88

POLK COUNTY

WELL NUMBER.--275959081552501. Sanlon Ranch Deep Well near Eaton Park, FL.

LOCATION.--Lat 27°59'59", long 81°55'25", in SW¼SW¼ sec.33, T.28 S., R.24 E., Hydrologic Unit 03100101, 200 ft east of State Highway 37, and 1.1 mi southwest of Eaton Park. Owner: Unknown.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused industrial, artesian well, diameter 24 in., depth 1,220 ft, cased to 293 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 125.22 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.50 ft above land-surface datum.

PERIOD OF RECORD.--January 1970 to current year, incomplete. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 98.70 ft NGVD, Apr. 19, 1983; lowest, 66.38 ft NGVD, May 9, 1975.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	92.78	88.52	90.69	90.90	89.58	84.60	e84.20	82.88	77.63	81.62	85.10	86.78
10	92.74	88.88	90.89	90.32	88.87	85.10	84.41	82.78	78.27	82.04	85.07	87.27
15	92.09	89.17	91.01	89.61	87.94	85.32	83.71	81.72	78.56	82.56	85.66	87.17
20	91.31	88.99	90.99	89.01	87.14	84.91	83.92	80.24	78.78	83.41	85.73	87.33
25	90.33	89.39	90.93	89.30	86.07	84.28	83.88	79.27	79.75	83.94	85.92	87.38
EOM	89.00	90.29	91.05	89.80	85.05	e84.30	82.81	78.49	80.35	84.70	86.28	88.65
MAX	92.88	90.29	91.17	91.11	89.74	85.42	84.43	82.98	80.35	84.70	86.40	88.65

CAL YR 1988 MAX 94.01
WTR YR 1989 MAX 92.88

e Estimated

WELL NUMBER.--280229081325201. Lake Hatchineha Road Well near Lake Hamilton, FL.

LOCATION.--Lat 28°02'29", long 81°32'52", in SE¼SE¼ sec.18, T.28 S., R.28 E., Hydrologic Unit 03090101, on north side of State Highway 542, 5.0 mi east of town of Lake Hamilton. Owner: Florida State Road Department.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 8 in., depth 463, cased to 137 ft.

INSTRUMENTATION.--Monthly measurement with steel tape.

DATUM.--Land-surface datum is 93.90 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1978, land-surface datum was considered to be 90.8 ft NGVD. Measuring point: Top of 0.75 in. hole in cap, 3.10 ft above land-surface datum.

REMARKS.--The figures of water level as elevation NGVD prior to Oct. 1, 1978, are in error. Revised records are available in files of the Geological Survey.

PERIOD OF RECORD.--January 1963 to September 1983 (bimonthly); October 1983 to current year (monthly). Records of water levels prior to January 1974 are available in files of the Geological Survey. Prior to October 1979, published as Lake Hamilton Well near Lake Hamilton.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 85.56 ft NGVD, Nov. 10, 1969; lowest measured, 74.43 ft NGVD, June 6, 1985.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
13...	1115	79.81	03...	1545	79.53
NOV			JUN		
10...	0915	80.69	07...	1710	78.51
DEC			JUL		
15...	0755	80.98	11...	1045	78.90
JAN			AUG		
11...	1155	[illegible].65	16...	0915	79.04
FEB			SEP		
14...	1425	79.82	06...	1250	79.17
MAR			12...	0920	78.61
16...	1520	78.92			
APR					
06...	1145	79.90			

POLK COUNTY

WELL NUMBER.--280456081374301. Smith Well at Haines City, FL.

LOCATION.--Lat 28°04'56", long 81°37'43", in NW¼NW¼ sec.4, T.28 S., R.27 E., Hydrologic Unit 03100101, 0.1 mi south of State Highway 544, and 0.4 mi west of Alternate U. S. Highway 27 at Haines City. Owner: Jess Smith.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, irrigation, artesian well, diameter 10 in., depth 549 ft, cased to 110 ft.

INSTRUMENTATION.--Monthly measurement with steel tape.

DATUM.--Land-surface datum is 167.99 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1977, land-surface datum was considered to be 170 ft, from topographic map. See PERIOD OF RECORD. Measuring point: Top of access hole in pump base, 0.70 ft above land-surface datum. Prior to Jan. 2, 1975, end of 6 in. discharge pipe, 8.0 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby irrigation wells.

PERIOD OF RECORD.--May 1973 to September 1977 (quarterly); October 1977 to current year (monthly). Records of water levels prior to January 1974 are available in files of the Geological Survey. The figures of water level as elevation in feet, NGVD prior to Oct. 1, 1977, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of -2.01 ft. Revised records are in files of the Geological Survey. See DATUM.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 113.50 ft NGVD, Jan. 31, 1980; lowest measured, 96.03 ft NGVD, Mar. 31, 1976.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
13...	1135	106.47	03...	1600	107.24
NOV			16...	0835	106.31
10...	1000	108.62	JUN		
DEC			07...	1745	105.66
15...	0810	109.70	JUL		
JAN			11...	1055	107.89
11...	1140	106.75	AUG		
FEB			16...	0900	107.57
14...	1440	107.50	SEP		
MAR			06...	1305	107.84
16...	1535	107.57	12...	0845	107.62
APR					
06...	1215	107.12			

POLK COUNTY

WELL NUMBER.--281532081345001. Loughman Deep Well near Loughman, FL.

LOCATION.--Lat 28°15'32", long 81°34'50", in NW¼NE¼ sec.2, T.26 S., R.27 E., Hydrologic Unit 03090101, 10 ft south of Lake Wilson Road, 0.6 mi east of State Highway 545, and 1.6 mi northwest of Loughman. Owner: U.S. Geological Survey.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 250 ft, cased to 85 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 104.29 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 2.72 ft above land-surface datum. Prior to Oct. 1, 1979, top of 6 in. nipple, 2.60 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby irrigation wells.

PERIOD OF RECORD.--August 1960 to November 1970 (quarterly); December 1970 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 93.23 ft NGVD, Oct. 1, 1979; lowest, 88.60 ft NGVD, May 20, 1981.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	92.30	91.77	92.48	92.04	91.94	91.51	91.15	91.04	90.31	90.48	90.83	90.85
10	92.15	91.73	92.27	91.88	91.78	91.58	90.87	90.85	90.32	90.57	90.72	90.96
15	91.95	91.55	92.40	91.84	91.66	91.34	91.01	90.69	90.08	90.68	90.75	90.80
20	91.79	91.43	92.24	91.75	91.53	91.16	90.93	90.52	89.85	90.88	90.71	91.05
25	91.59	92.52	92.29	92.15	91.04	91.25	90.67	90.22	90.06	90.85	90.62	91.26
EOM	91.58	92.55	92.09	92.07	91.43	91.19	90.92	90.31	90.09	90.89	90.43	91.31
MAX	92.34	92.58	92.54	92.17	91.99	91.58	91.19	91.10	90.37	90.89	90.91	91.33

CAL YR 1988 MAX 92.79
WTR YR 1989 MAX 92.58

WELL NUMBER.--281532081345002. Loughman Shallow Well near Loughman, FL.

LOCATION.--Lat 28°15'32", long 81°34'50", in NW¼NE¼ sec.2, T.26 S., R.27 E., Hydrologic Unit 03090101, 10 ft south of Lake Wilson Road, 0.6 mi east of State Highway 545, and 1.6 mi northwest of Loughman. Owner: U.S. Geological Survey.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, nonartesian well, diameter 6 in., depth 32 ft, cased to 29 ft.

INSTRUMENTATION.--Monthly measurement with steel tape.

DATUM.--Land-surface datum is 104.29 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of nipple, 2.70 ft above land-surface datum.

PERIOD OF RECORD.--January 1967 to September 1968 (thrice yearly); April 1969 to September 1986 (bimonthly); October 1986 to current year (monthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 94.06 ft NGVD, Aug. 5, 1982; lowest measured, 89.65 ft NGVD, May 20, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			APR		
13...	1215	93.34	06...	1255	91.95
NOV			MAY		
10...	1055	92.65	03...	1635	91.87
DEC			JUN		
15...	0850	93.43	07...	1830	91.35
JAN			JUL		
11...	1120	92.83	11...	1145	91.44
FEB			AUG		
14...	1520	92.63	16...	0835	91.60
MAR			SEP		
15...	1620	92.20	06...	1355	91.54

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1988 TO SEPTEMBER 1989

STATION NUMBER	STATION NAME	LAT-I-TUDE	LONG-I-TUDE	DATE	ELEV-ATION ABOVE NGVD (FEET)
	POLK COUNTY				
273913081331801	NEUMAN WEGUAR WELL 29 NR BEREAH, FL	27 39 13 N	081 33 18 W	05-18-89 09-14-89	64.11 78.45
273923081531901	DOTSON WELL 21 NR BOWLING GREEN, FL	27 39 23 N	081 53 19 W	05-16-89 09-12-89	38.36 54.94
274009081452202	MOBIL WELL UF5 NORTH WELL NR BOWLING GREEN, FL	27 40 09 N	081 45 22 W	05-17-89 09-13-89	55.74 68.39
274108081474601	MOBILE WELL UF9 NORTH WELL NR FT MEADE,FL	27 41 08 N	081 47 46 W	05-17-89 09-13-89	42.10 56.98
274134081401801	LASTINGER RD NR FT MEADE	27 41 34 N	081 40 18 W	05-17-89 09-13-89	117.30 121.68
274158081501301	CHRISTMAS TREE PK HWHN	27 41 58 N	081 50 13 W	05-18-89 09-14-89	43.61 59.29
274227081460401	MOBILE WELL UF 7 NORTH WELL NR FT MEADE, FL	27 42 27 N	081 46 04 W	05-17-89 09-13-89	50.76 59.79
274238081415801	MOBIL WELL UF 1 NORTH WELL NR FT MEADE, FL	27 42 38 N	081 41 58 W	05-17-89 09-13-89	63.78 74.32
274358081540401	32S24E03 743154222 122	27 43 58 N	081 54 04 W	09-14-89	122.37
274432081493401	J.C.BARNETTE NR FT.MEEADE, FL	27 44 32 N	081 49 34 W	05-17-89 09-13-89	39.16 53.50
274440081314801	COLEY WELL AT FROSTPROOF,FL.	27 44 40 N	081 31 48 W	05-18-89 09-14-89	67.01 75.60
274722081590001	119	27 47 22 N	81 59 00 W	09-14-89	88.37
274841081480901	V. C. CORP OFFICE WELL AT HOMELAND	27 48 41 N	081 48 09 W	05-17-89 09-13-89	40.32 55.05
274847081414501	140	27 48 47 N	81 41 45 W	05-17-89 09-13-89	121.91 123.16
275016081370401	O.T. BRYAN IRR WELL	27 50 16 N	081 37 04 W	05-17-89 09-13-89	74.17 86.14
275040081493001	IMC TEST WELL ON HWY 98 NR BARTOW	27 50 40 N	081 49 30 W	05-17-89 09-13-89	58.48 68.08
275059081562201	164	27 50 59 N	081 56 22 W	05-17-89 09-14-89	65.97 70.82
275129082010401	30S23E21 751201422 143	27 51 29 N	082 01 04 W	05-18-89 09-12-89	104.71 106.11
275158081494601	COCHRAN OLD	27 51 58 N	081 49 46 W	05-17-89 09-13-89	70.89 74.97
275253081502301	BARTOW SENIOR HIGH SCHOOL	27 52 53 N	081 50 23 W	09-13-89	71.29
275301081495701	L.B. BARNES WELL 54 AT BARTOW, FL	27 53 01 N	081 49 57 W	05-17-89 09-13-89	63.11 70.50
275307081510401	WILDWOOD BAPTIST CHURCH AT BARTOW, FL	27 53 07 N	081 51 04 W	05-17-89 09-13-89	47.64 59.83
275403081391301		27 54 03 N	081 39 13 W	05-16-89 09-13-89	86.49 93.25
275436081471001	FAITH BAPTIST CH NR BRTW	27 54 36 N	081 47 10 W	05-17-89 09-12-89	50.66 58.02
275440081493701	CNTRL FL TRUSS HWTN AT BRTW	27 54 40 N	081 49 37 W	05-17-89 09-12-89	76.70 76.92
275455081341801	W.I. ROPER IRR WELL AT LAKE WALES	27 54 55 N	081 34 18 W	05-16-89 09-12-89	91.63 93.23
275523081502601	755-150-3 (ALSO WELL 64) NR BARTOW, FL	27 55 23 N	081 50 26 W	05-17-89 09-12-89	62.32 65.65
275530082003501	CAVENEY DP. NR MULBERRY	27 55 30 N	082 00 35 W	05-16-89	75.26

STATION NUMBER	STATION NAME	LAT-I-TUDE	LONG-I-TUDE	DATE	ELEV-ATION ABOVE NGVD (FEET)
	POLK COUNTY				
275538082031901	KNOX DP WELL NR MULBERRY	27 55 38 N	082 03 19 W	05-16-89 09-12-89	47.31 54.07
275615082022001	WARREN HWTN NR MULBERRY	27 56 15 N	082 02 20 W	05-16-89 09-12-89	87.93 90.41
275628081541201	TILLERY RD DEEP NR LKLND	27 56 28 N	081 54 12 W	05-16-89 09-12-89	47.53 58.56
275723081465701	FOODTWN DEEP NR EAGLE LK	27 57 23 N	081 46 57 W	05-17-89 09-12-89	77.42 86.05
275737081573801	BRANNEN RD MOOSE LDG HWT	27 57 37 N	081 57 38 W	05-16-89	162.89
275800081523001	CNTL HWTH AT HGHLND CITY	27 58 00 N	081 52 30 W	05-16-89 09-12-89	63.70 69.44
275833082003501	PIPER WATER TWR NR LKLND	27 58 33 N	082 00 35 W	05-16-89 09-12-89	54.40 65.11
275924081594601	F.P. BUNCH IRR WELL NR LAKELAND	27 59 24 N	081 59 46 W	09-12-89	66.97
280045081504001	POLK CNTY LNDFLL NR LKLD	28 00 45 N	081 50 40 W	05-16-89 09-12-89	87.64 89.81
280053081572301	ORLEANS ST DEEP AT LKLND	28 00 53 N	081 57 23 W	05-16-89 09-12-89	65.03 73.64
280247082015301	PRECISION TRUSS NR LKLND	28 02 47 N	082 01 53 W	05-16-89 09-12-89	77.88 86.36
280338081572901	N FLORIDA AVE D AT LKLND	28 03 38 N	081 57 29 W	05-16-89 09-12-89	79.41 86.81
280415081590001	LAKELAND WATER PLNT HWTN	28 04 15 N	081 59 00 W	05-16-89	193.11
280420081570101	LAKELAND STADIUM WELL AT LAKELAND	28 04 20 N	081 57 01 W	05-16-89 09-12-89	87.65 94.67
280437081410207	L.LUCERNE BLACKBURN WELL 1PN-155 NR L.ALFRED,FL	28 04 37 N	081 41 02 W	05-16-89 09-12-89	114.97 118.33
280455082021501	PLANT CITY QUAD	28 04 55 N	082 02 15 W	05-15-89 09-12-89	91.82 94.92
280502082002101	HAMILTON HWTN NR LAKELND	28 05 02 N	082 00 21 W	05-16-89 09-12-89	79.83 87.68
280520081575201	CRESENT DR DP AT LAKELND	28 05 20 N	081 57 52 W	05-16-89 09-12-89	88.44 95.47
280550081542501	27S24E33 222	28 05 50 N	081 54 25 W	05-16-89	129.22

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

POLK COUNTY

275314081514201 ROMP 59 AVON PARK WELL AT BARTOW, FL. (LAT 27 53 14N LONG 081 51 42W)

DATE	TIME	SPECIFIC CONDUCTANCE (US/CM)	TEMPERATURE WATER (DEG C)	CHLORIDE, DISSOLVED (MG/L AS CL)
OCT 1988				
14...	1600	4400	22.5	900
DEC				
15...	1500	6200	22.5	1200
FEB 1989				
15...	1015	7500	23.0	1500
APR				
07...	0900	8100	22.0	1800
JUN				
08...	1410	8000	25.0	1800
AUG				
15...	1535	8800	23.0	1800

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

POLK COUNTY

DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE AIR (DEG C)	TEMPER-ATURE WATER (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
274032081584901 AGRICO-1 SH WELL 11 NR FT GREEN, FL (LAT 27 40 32N LONG 081 58 49W)												
NOV 1988												
18...	1115	3.50	177	5.14	28.0	26.0	--	--	34	8.4	3.1	14
APR 1989												
12...	1215	--	179	5.24	--	24.5	--	--	--	--	--	--
MAY												
10...	1020	--	183	5.05	--	27.0	--	--	--	--	--	--
JUN												
08...	1010	--	203	5.21	--	29.0	--	--	--	--	--	--
JUL												
14...	0930	5.51	180	5.41	--	28.0	--	--	--	--	--	--
AUG												
11...	1010	--	190	5.02	--	29.5	--	--	--	--	--	--
SEP												
07...	1045	5.50	95	5.24	--	28.0	--	--	--	--	--	--
274044081584801 AGRICO 1DP WELL NR FT GREEN, FL (LAT 27 40 44N LONG 081 58 48W)												
DEC 1988												
21...	1500	6.89	-	--	29.5	24.5	<5	5.3	240	47	29	11
APR 1989												
12...	1138	--	490	7.90	--	22.0	--	--	--	--	--	--
MAY												
10...	0953	--	485	7.79	--	27.0	--	--	--	--	--	--
JUN												
08...	0855	--	500	7.88	--	26.5	--	--	--	--	--	--
JUL												
14...	0825	3.98	495	7.94	--	23.5	--	--	--	--	--	--
AUG												
11...	0910	--	-	--	--	--	--	--	--	--	--	--
11...	0930	--	470	7.80	--	24.5	--	--	--	--	--	--
SEP												
07...	1150	--	457	7.67	--	25.0	--	--	--	--	--	--
274127082020801 AGRICO-4 SH WELL 2 (LAT 27 41 26N LONG 082 02 09W)												
NOV 1988												
16...	1340	2.37	595	6.90	29.5	23.5	10	7.0	220	34	32	11
APR 1989												
12...	1610	7.32	580	--	--	25.0	--	--	--	--	--	--
MAY												
09...	0935	--	540	6.78	--	23.0	--	--	--	--	--	--
JUN												
12...	1335	--	580	6.79	--	28.0	--	--	--	--	--	--
JUL												
12...	1555	6.50	520	7.10	--	24.5	--	--	--	--	--	--
AUG												
10...	0955	--	560	7.08	--	27.5	--	--	--	--	--	--
SEP												
05...	1200	--	600	7.25	--	28.0	--	--	--	--	--	--
274206082003701 AGRICO 9 SH 12 NR FT LONESOME, FL (LAT 27 42 06N LONG 082 00 47W)												
NOV 1988												
30...	1500	2.96	185	--	25.0	24.0	<5	--	33	6.8	3.8	10
APR 1989												
12...	1020	6.51	220	5.68	--	20.5	--	--	--	--	--	--
MAY												
09...	1145	--	238	5.56	--	25.5	--	--	--	--	--	--
JUN												
08...	1520	--	235	5.64	--	28.0	--	--	--	--	--	--
JUL												
13...	0945	5.93	240	5.51	--	28.5	--	--	--	--	--	--
AUG												
10...	1245	--	239	5.47	--	28.5	--	--	--	--	--	--
SEP												
07...	1450	6.14	216	5.47	--	30.0	--	--	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	IODIDE, DIS-SOLVED (MG/L AS I)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)
POLK COUNTY												
274032081584901 AGRICO-1 SH WELL 11 NR FT GREEN, FL (LAT 27 40 32N LONG 081 58 49W)												
NOV 1988												
18...	47	1	0.5	1.9	18	0.50	0.027	22	189	105	0.100	0.050
APR 1989												
12...	--	--	-	3.3	9.6	--	--	--	173	--	--	--
MAY												
10...	--	--	-	3.1	19	--	--	--	160	--	--	--
JUN												
08...	--	--	-	2.6	18	--	--	--	175	--	--	--
JUL												
14...	--	--	-	1.6	18	--	--	--	184	--	--	--
AUG												
11...	--	--	-	1.5	19	--	--	--	195	--	--	--
SEP												
07...	--	--	-	1.6	19	--	--	--	182	--	--	--
274044081584801 AGRICO 1DP WELL NR FT GREEN, FL (LAT 27 40 44N LONG 081 58 48W)												
DEC 1988												
21...	9	0.3	11	2.3	5.8	0.90	0.013	15	238	279	<0.010	<0.020
APR 1989												
12...	--	--	-	1.8	4.5	--	--	--	252	--	--	--
MAY												
10...	--	--	-	1.4	6.1	--	--	--	276	--	--	--
JUN												
08...	--	--	-	1.4	5.7	--	--	--	280	--	--	--
JUL												
14...	--	--	-	0.70	6.6	--	--	--	274	--	--	--
AUG												
11...	--	--	-	--	--	--	--	--	--	--	--	--
11...	--	--	-	0.50	6.5	--	--	--	273	--	--	--
SEP												
07...	--	--	-	0.40	5.8	--	--	--	283	--	--	--
274127082020801 AGRICO-4 SH WELL 2 (LAT 27 41 26N LONG 082 02 09W)												
NOV 1988												
16...	10	0.3	2.0	2.6	11	1.5	0.015	14	258	284	<0.010	<0.020
APR 1989												
12...	--	--	-	1.1	15	--	--	--	234	--	--	--
MAY												
09...	--	--	-	1.2	13	--	--	--	218	--	--	--
JUN												
12...	--	--	-	1.1	14	--	--	--	222	--	--	--
JUL												
12...	--	--	-	0.60	14	--	--	--	230	--	--	--
AUG												
10...	--	--	-	3.3	14	--	--	--	245	--	--	--
SEP												
05...	--	--	-	4.2	14	--	--	--	241	--	--	--
274206082003701 AGRICO 9 SH 12 NR FT LONESOME, FL (LAT 27 42 06N LONG 082 00 47W)												
NOV 1988												
30...	40	0.8	0.2	1.1	28	0.40	0.053	6.7	117	88	<0.010	0.020
APR 1989												
12...	--	--	-	1.8	29	--	--	--	---	--	--	--
MAY												
09...	--	--	-	1.9	27	--	--	--	100	--	--	--
JUN												
08...	--	--	-	2.3	26	--	--	--	113	--	--	--
JUL												
13...	--	--	-	1.3	26	--	--	--	109	--	--	--
AUG												
10...	--	--	-	1.4	26	--	--	--	106	--	--	--
SEP												
07...	--	--	-	1.5	27	--	--	--	115	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHOROUS TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	PHOSPHOROUS ORTHO, DISSOLVED (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)
POLK COUNTY											
274032081584901 AGRICO-1 SH WELL 11 NR FT GREEN, FL (LAT 27 40 32N LONG 081 58 49W)											
NOV 1988											
18...	<0.020	3.00	2.0	5.0	49.0	6.90	3.10	2	2	2	10
APR 1989											
12...	--	--	--	--	--	--	2.10	--	--	--	--
MAY											
10...	--	--	--	--	--	--	1.70	--	--	--	--
JUN											
08...	--	--	--	--	--	--	1.80	--	--	--	--
JUL											
14...	--	--	--	--	--	--	2.00	--	--	--	--
AUG											
11...	--	--	--	--	--	--	1.10	--	--	--	--
SEP											
07...	--	--	--	--	--	--	1.90	--	--	--	--
274044081584801 AGRICO 1DP WELL NR FT GREEN, FL (LAT 27 40 44N LONG 081 58 48W)											
DEC 1988											
21...	<0.020	1.80	0.30	2.1	1.70	0.040	0.030	13	13	23	<10
APR 1989											
12...	--	--	--	--	--	--	0.050	--	--	--	--
MAY											
10...	--	--	--	--	--	--	0.100	--	--	--	--
JUN											
08...	--	--	--	--	--	--	0.070	--	--	--	--
JUL											
14...	--	--	--	--	--	--	0.080	--	--	--	--
AUG											
11...	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	0.070	--	--	--	--
SEP											
07...	--	--	--	--	--	--	0.090	--	--	--	--
274127082020801 AGRICO-4 SH WELL 2 (LAT 27 41 26N LONG 082 02 09W)											
NOV 1988											
16...	<0.020	17.4	1.6	19	0.400	0.020	0.040	<1	<1	3	<10
APR 1989											
12...	--	--	--	--	--	--	0.010	--	--	--	--
MAY											
09...	--	--	--	--	--	--	0.020	--	--	--	--
JUN											
12...	--	--	--	--	--	--	0.020	--	--	--	--
JUL											
12...	--	--	--	--	-	--	0.020	--	--	--	--
AUG											
10...	--	--	--	--	--	--	0.010	--	--	--	--
SEP											
05...	--	--	--	--	--	--	0.010	--	--	--	--
274206082003701 AGRICO 9 SH 12 NR FT LONESOME, FL (LAT 27 42 06N LONG 082 00 47W)											
NOV 1988											
30...	0.020	0.690	0.41	1.1	1.10	0.010	0.010	7	7	<2	<10
APR 1989											
12...	--	--	--	--	--	--	0.030	--	--	--	--
MAY											
09...	--	--	--	--	--	--	0.020	--	--	--	--
JUN											
08...	--	--	--	--	--	--	0.030	--	--	--	--
JUL											
13...	--	--	--	--	--	--	0.010	--	--	--	--
AUG											
10...	--	--	--	--	--	--	0.050	--	--	--	--
SEP											
07...	--	--	--	--	--	--	0.090	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, TOTAL RECOVERABLE (UG/L AS B)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)
POLK COUNTY											
274032081584901 AGRICO-1 SH WELL 11 NR FT GREEN, FL (LAT 27 40 32N LONG 081 58 49W)											
NOV 1988											
16...	--	--	--	--	--	--	--	--	--	--	--
18...	<0.5	80	30	<1	<1	10	3	<3	31	<10	11000
274044081584801 AGRICO 1DP WELL NR FT GREEN, FL (LAT 27 40 44N LONG 081 58 48W)											
DEC 1988											
21...	<0.5	70	60	<1	<1	<5	2	<3	5	<10	2000
274127082020801 AGRICO-4 SH WELL 2 (LAT 27 41 26N LONG 082 02 09W)											
NOV 1988											
16...	<0.5	70	30	1	<1	<5	1	<3	5	<10	2800
274206082003701 AGRICO 9 SH 12 NR FT LONESOME, FL (LAT 27 42 06N LONG 082 00 47W)											
NOV 1988											
30...	<0.5	30	20	1	<1	<5	<1	10	2	<10	11000

DATE	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SILVER, DISSOLVED (UG/L AS AG)
274032081584901 AGRICO-1 SH WELL 11 NR FT GREEN, FL (LAT 27 40 32N LONG 081 58 49W)											
NOV 1988											
16...	--	--	--	--	--	--	--	--	--	--	--
18...	7900	--	<10	<4	30	18	0.20	<0.1	<10	10	<1.0
274044081584801 AGRICO 1DP WELL NR FT GREEN, FL (LAT 27 40 44N LONG 081 58 48W)											
DEC 1988											
21...	860	5	<10	<4	40	28	0.30	<0.1	20	<10	<1.0
274127082020801 AGRICO-4 SH WELL 2 (LAT 27 41 26N LONG 082 02 09W)											
NOV 1988											
16...	2700	<5	<10	<4	60	49	<0.10	<0.1	<10	<10	<1.0
274206082003701 AGRICO 9 SH 12 NR FT LONESOME, FL (LAT 27 42 06N LONG 082 00 47W)											
NOV 1988											
30...	14000	<5	10	<4	30	42	<0.10	<0.1	<10	<10	<1.0

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	POLO-NIUM 210 DIS-SOLVED (PCI/L)	URANIUM -238 WATER DISSOLV (PCI/L)	URANIUM -234 WATER DISSOLV (PCI/L)
POLK COUNTY											
274032061584901 AGRICO-1 SH WELL 11 NR FT GREEN, FL (LAT 27 40 32N LONG 081 58 49W)											
NOV 1988											
16...	--	--	--	--	--	--	--	--	--	--	--
18...	30	12	50	63	7.7	5.4	4.2	2.1	<1.0	0.60	0.70
274044081584801 AGRICO 1DP WELL NR FT GREEN, FL (LAT 27 40 44N LONG 081 58 48W)											
DEC 1988											
21...	310	<6	20	15	--	--	--	1.0	--	0.30	0.40
274127082020801 AGRICO-4 SH WELL 2 (LAT 27 41 26N LONG 082 02 09W)											
NOV 1988											
16...	100	<6	<10	6	5.7	3.5	2.7	1.4	<1.0	<0.10	<0.10
274206082003701 AGRICO 9 SH 12 NR FT LONESOME, FL (LAT 27 42 06N LONG 082 00 47W)											
NOV 1988											
30...	60	<6	10	27	2.8	0.8	0.6	0.27	--	<0.10	<0.10

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE AIR (DEG C)	TEMPER-ATURE WATER (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
POLK COUNTY												
274230082005401 ACRICO 9DP WELL NR FT LONESOME, FL (LAT 27 42 30N LONG 082 00 54W)												
DEC 1988												
21...	1100	7.84	325	7.39	28.0	25.0	10	14	230	49	26	10
APR 1989												
12...	0905	--	480	7.29	--	22.0	--	--	--	--	--	--
MAY												
09...	1348	--	470	7.66	--	28.5	--	--	--	--	--	--
JUN												
08...	1315	--	544	7.44	--	26.0	--	--	--	--	--	--
JUL												
13...	1145	8.58	530	7.34	--	26.5	--	--	--	--	--	--
AUG												
10...	1440	--	379	7.20	--	25.0	--	--	--	--	--	--
SEP												
07...	1345	--	472	7.26	--	25.0	--	--	--	--	--	--
274604081460101 MOBIL HTRN WELL NR FT MEADE, FL (LAT 27 46 04N LONG 081 46 01W)												
APR 1989												
06...	1325	--	786	7.90	--	27.0	--	--	--	--	--	--
MAY												
11...	0955	--	780	7.72	--	22.5	--	--	--	--	--	--
JUN												
13...	1345	--	673	7.96	--	25.0	--	--	--	--	--	--
JUL												
17...	1230	--	-	7.80	--	--	--	--	--	--	--	--
AUG												
09...	1215	--	760	7.60	--	26.0	--	--	--	--	--	--
SEP												
06...	0910	--	770	7.52	--	24.0	--	--	--	--	--	--
274606081455201 MOBIL SH 8 NR FT MEADE, FL (LAT 27 46 06N LONG 081 45 52W)												
NOV 1988												
28...	1500	0.74	905	5.85	24.5	24.0	35	--	440	100	46	18
APR 1989												
06...	1425	--	773	5.96	--	22.5	--	--	--	--	--	--
MAY												
11...	1038	--	780	5.88	--	23.5	--	--	--	--	--	--
JUN												
13...	1425	--	705	6.38	--	30.5	--	--	--	--	--	--
JUL												
17...	1430	--	-	--	--	--	--	--	--	--	--	--
AUG												
09...	1305	--	630	5.81	--	29.0	--	--	--	--	--	--
SEP												
06...	1005	--	622	5.78	--	27.5	--	--	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	IODIDE, DIS-SOLVED (MG/L AS I)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)
POLK COUNTY											
274230082005401 AGRICO 9DP WELL NR FT LONESOME, FL (LAT 27 42 30N LONG 082 00 54W)											
DEC 1988											
21...	9	0.3	2.0	2.6	6.6	0.60	0.030	36	297	281	<0.010
APR 1989											
12...	--	--	--	20	11	--	--	--	189	--	--
MAY											
09...	--	--	--	1.7	10	--	--	--	291	--	--
JUN											
08...	--	--	--	1.3	9.3	--	--	--	298	--	--
JUL											
13...	--	--	--	0.80	11	--	--	--	297	--	--
AUG											
10...	--	--	--	0.50	10	--	--	--	309	--	--
SEP											
07...	--	--	--	0.50	12	--	--	--	301	--	--
274604081460101 MOBIL HTRN WELL NR FT MEADE, FL (LAT 27 46 04N LONG 081 46 01W)											
APR 1989											
06...	--	--	--	1.8	12	--	--	--	471	--	--
MAY											
11...	--	--	--	1.6	12	--	--	--	460	--	--
JUN											
13...	--	--	--	1.3	13	--	--	--	449	--	--
JUL											
17...	--	--	--	1.3	12	--	--	--	472	--	--
AUG											
09...	--	--	--	1.2	12	--	--	--	481	--	--
SEP											
06...	--	--	--	1.2	13	--	--	--	470	--	--
274606081455201 MOBIL SH 8 NR FT MEADE, FL (LAT 27 46 06N LONG 081 45 52W)											
NOV 1988											
28...	8	0.4	1.5	320	8.4	1.1	0.016	41	666	623	<0.010
APR 1989											
06...	--	--	--	250	6.4	--	--	--	561	--	--
MAY											
11...	--	--	--	220	7.1	--	--	--	492	--	--
JUN											
13...	--	--	--	250	7.2	--	--	--	539	--	--
JUL											
17...	--	--	--	220	8.5	--	--	--	522	--	--
AUG											
09...	--	--	--	230	6.9	--	--	--	521	--	--
SEP											
06...	--	--	--	230	7.0	--	--	--	504	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	PHOSPHOROUS ORTHO, DISSOLVED (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)
POLK COUNTY											
274230082005401 AGRICO 9DP WELL NR FT LONESOME, FL (LAT 27 42 30N LONG 082 00 54W)											
DEC 1988											
21...	<0.020	<0.020	0.340	0.36	0.70	1.10	0.070	0.030	11	8	8
APR 1989											
12...	--	--	--	--	--	--	--	0.030	--	--	--
MAY											
09...	--	--	--	--	--	--	--	0.040	--	--	--
JUN											
08...	--	--	--	--	--	--	--	0.040	--	--	--
JUL											
13...	--	--	--	--	--	--	--	0.020	--	--	--
AUG											
10...	--	--	--	--	--	--	--	0.060	--	--	--
SEP											
07...	--	--	--	--	--	--	--	0.110	--	--	--
274604081460101 MOBIL HTRN WELL NR FT MEADE, FL (LAT 27 46 04N LONG 081 46 01W)											
APR 1989											
06...	--	--	--	--	--	--	--	0.020	--	--	--
MAY											
11...	--	--	--	--	--	--	--	0.020	--	--	--
JUN											
13...	--	--	--	--	--	--	--	0.030	--	--	--
JUL											
17...	--	--	--	--	--	--	--	0.020	--	--	--
AUG											
09...	--	--	--	--	--	--	--	0.010	--	--	--
SEP											
06...	--	--	--	--	--	--	--	0.030	--	--	--
274606081455201 MOBIL SH 8 NR FT MEADE, FL (LAT 27 46 06N LONG 081 45 52W)											
NOV 1988											
23...	<0.020	<0.020	1.40	1.1	2.5	5.10	0.270	0.270	3	4	13
APR 1989											
06...	--	--	--	--	--	--	--	0.550	--	--	--
MAY											
11...	--	--	--	--	--	--	--	0.420	--	--	--
JUN											
13...	--	--	--	--	--	--	--	0.510	--	--	--
JUL											
17...	--	--	--	--	--	--	--	0.220	--	--	--
AUG											
09...	--	--	--	--	--	--	--	0.320	--	--	--
SEP											
06...	--	--	--	--	--	--	--	0.300	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, TOTAL RECOVERABLE (UG/L AS B)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)
POLK COUNTY											
274230082005401 AGRICO 9DP WELL NR FT LONESOME, FL (LAT 27 42 30N LONG 082 00 54W)											
DEC 1988											
21...	<10	<0.5	60	30	<1	<1	<5	2	<3	16	<10
274606081455201 MOBIL SH 8 NR FT MEADE, FL (LAT 27 46 06N LONG 081 45 52W)											
NOV 1988											
28...	<10	<0.5	50	30	<1	<1	<5	1	<3	<1	<10

DATE	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)
274230082005401 AGRICO 9DP WELL NR FT LONESOME, FL (LAT 27 42 30N LONG 082 00 54W)											
DEC 1988											
21...	1100	26	21	<10	6	60	39	<0.10	<0.1	30	<10
274606081455201 MOBIL SH 8 NR FT MEADE, FL (LAT 27 46 06N LONG 081 45 52W)											
NOV 1988											
28...	12000	14000	<5	<10	10	140	150	<0.10	0.1	<10	<10

DATE	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L)	URANIUM -238 WATER DISSOLV (PCI/L)	URANIUM -234 WATER DISSOLV (PCI/L)
274230082005401 AGRICO 9DP WELL NR FT LONESOME, FL (LAT 27 42 30N LONG 082 00 54W)											
DEC 1988											
21...	<1.0	70	<6	50	32	11	3.2	2.9	2.8	0.10	0.30
274606081455201 MOBIL SH 8 NR FT MEADE, FL (LAT 27 46 06N LONG 081 45 52W)											
NOV 1988											
28...	<1.0	190	<6	<10	40	6.3	4.0	2.8	0.89	0.20	0.30

KEY TO SITE LOCATIONS ON FIGURE 27

SARASOTA COUNTY

INDEX NUMBER	SITE NUMBER	PAGE NUMBER	INDEX NUMBER	SITE NUMBER	PAGE NUMBER
1	265712082205701	286	16	271134082092201	301
1	265712082205702	287	16	271134082092202	301
2	265809082194001	288	17	271227082084801	302
3	265834082202401	289	18	271601082330501	302
3	265834082202402	289	19	271619082240201	303
4	270036082213401	290	20	271938082251801	304
5	270106082214101	290	21	272020082194801	305
5	270112082213301	291	22	272049082324401	305
5	270112082213302	291	23	272053082320202	306
6	270113082223302	292	24	272119082325101	306
6	270113082223303	292	24	272128082323801	307
7	270137082235301	293	24	272129082330202	307
8	270240082235701	293	24	272133082324701	308
9	270542082261801	294	25	272220082151401	308
10	270808082270502	295	26	272248082175201	309
10	270808082270503	295	27	272255082172202	309
11	270919082234205	296	28	272257082180202	310
12	270952082095901	296	28	272258082181701	310
13	270959082203001	297	29	272258082135301	311
13	270959082203002	297	29	272258082195302	311
13	270959082203003	298	30	272301082191401	312
14	271021082151601	298	31	272308082161801	312
14	271021082151602	299	32	272316082302601	313
14	271021082151603	299	33	272317082290502	313
15	271118082285301	300			

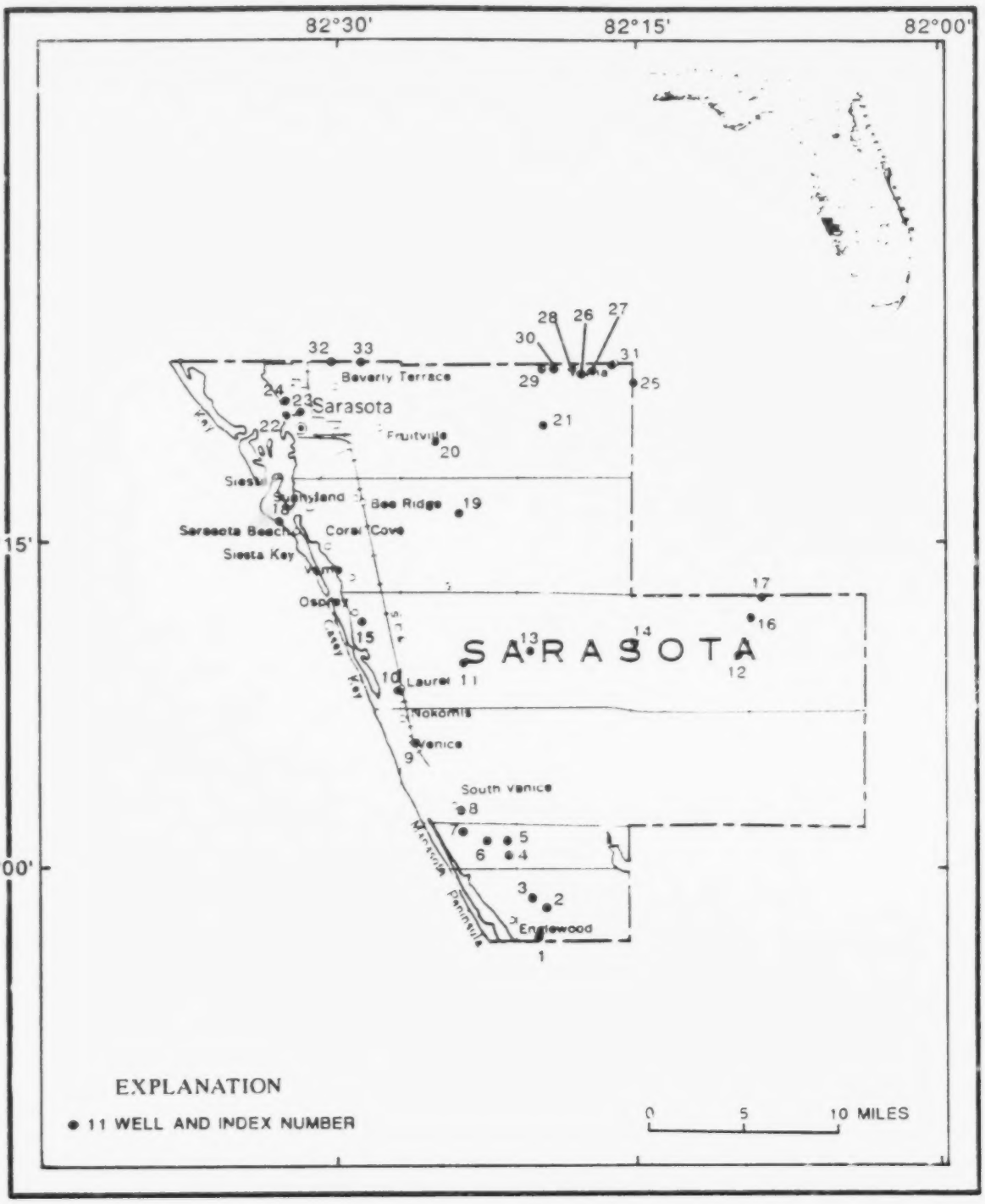

Figure 27.--Location of wells in Sarasota County.

SARASOTA COUNTY

WELL NUMBER.--265712082205701. Englewood Water District Well R-2 at Englewood, FL.

LOCATION.--Lat 26°57'12", long 82°20'57", in NE¼SW¼ sec.31, T.40 S., R.20 E., Hydrologic Unit 03100201, at water plant, 0.25 mi east of State Highway 775, and 0.5 mi north of Charlotte County line at Englewood. Owner: Englewood Water District.

AQUIFER.--Hawthorn formation of Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 110 ft, cased to 51 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 12.40 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1977, land-surface datum was considered to be 11 ft, from topographic map. See PERIOD OF RECORD. Measuring point: Top of recorder shelter floor, 2.57 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells. Extremes may have been exceeded during periods of missing record.

PERICD OF RECORD.--December 1974 to October 1976 (weekly), incomplete; November 1976 to September 1989, incomplete (discontinued). Records of water levels prior to October 1976 are available in files of the Geological Survey. The figures of water level as elevation in feet, NGVD prior to Oct. 1, 1977, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of +1.40 ft. Revised records are in files of the Geological Survey. See DATUM.

EXTREMES FCR PERICD OF RECORD.--Highest daily maximum water level, 11.65 ft NGVD, Apr. 3, 4, 1987; lowest water level measured, 3.39 ft below NGVD, Apr. 26, 1976.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.48	8.55	7.34	4.50	6.76	6.74	4.83	5.18	4.84	6.93	6.10	---
10	8.95	8.10	6.35	4.14	6.13	6.46	5.70	4.57	4.56	6.56	6.97	---
15	8.34	7.37	7.42	3.95	5.92	6.10	5.45	5.18	4.45	6.59	6.91	7.00
20	8.11	7.60	7.17	4.33	6.13	6.16	5.62	4.50	4.87	---	5.61	5.39
25	7.02	7.69	7.06	7.20	5.93	5.35	5.16	4.46	5.97	---	7.21	7.37
EOM	7.43	7.33	6.92	6.89	6.03	4.80	5.36	4.76	6.34	7.20	---	7.75
MAX	9.92	8.79	7.63	7.36	6.93	6.74	5.80	5.39	6.34	---	---	---

CAL YR 1988 MAX 10.70

SARASOTA COUNTY

WELL NUMBER.--265712082205702. Englewood Water Plant Shallow Well at Englewood, FL.

LOCATION.--Lat 26°57'12", long 82°20'57", in NE¼SW¼ sec.31, T.40 S., R.20 E., Hydrologic Unit 03100201, at water plant, 0.25 mi east of State Highway 775, and 0.5 mi north of Charlotte County line at Englewood. Owner: Englewood Water district.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 17 ft, cased to 7 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 12.53 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District). Prior to Oct. 1, 1977, land-surface datum was considered to be 11 ft, from topographic map. See PERIOD OF RECORD. Measuring point: Top of coupling, 2.00 ft above land-surface datum. Prior to Mar. 20, 1980, top of recorder shelter floor, 2.50 ft above land-surface datum; Mar. 20, 1980 to Dec. 11, 1985, top of shelter floor, 2.47 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells. Extremes may have been exceeded during periods of missing record.

PERIOD OF RECORD.--May 1974 to September 1981, incomplete; October 1981 to September 1989 (bimonthly), incomplete (discontinued). Records of water levels prior to October 1975 are available in files of the Geological Survey. The figures of water level as elevation in feet, NGVD prior to Oct. 1, 1977, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of +1.53 ft. Revised records are in files of the Geological Survey. See DATUM.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 11.28 ft NGVD, Aug. 5, 10, 1974; lowest, 3.83 ft NGVD, May 31, 1974.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
17...	1501	9.31	03...	0950	7.44
DEC			JUL		
28...	1145	8.89	25...	1115	8.41
MAR					
08...	0935	8.55			

SARASOTA COUNTY

WELL NUMBER.--265809082194001. Englewood Water District Well TH 6 near Englewood, FL.

LOCATION.--Lat 26°58'09", long 82°19'40", in SW¼NW¼ sec.29, T.40 S., R.20 E., Hydrologic Unit 03100201, 50 ft south of State Highway 777, 1.1 mi east of Godfrey Creek, and 1.7 mi east of Englewood. Owner: Englewood Water District.

AQUIFER.--Hawthorn formation of Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 3 in., depth 65 ft, cased to 45 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 11.22 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1977, land-surface datum was considered to be 12 ft, from topographic map. See PERIOD OF RECORD. Measuring point: Top of flange, 2.00 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells. Extremes may have been exceeded during periods of missing record.

PERIOD OF RECORD.--April 1971 to September 1987, incomplete; October 1987 to September 1989 (bimonthly), discontinued. Records of water levels prior to October 1975 are available in files of the Geological Survey. The figures of water level as elevation in feet, NGVD prior to Oct. 1, 1977, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of -0.72 ft. Revised records are in files of the Geological Survey. See DATUM.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 12.30 ft estimated, NGVD, Aug. 19, 1982; lowest, 2.85 ft NGVD, May 5, 1971.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
17...	1530	9.20	03...	1004	6.05
DEC			16...	0928	5.58
28...	1158	8.40	JUL		
FEB			25...	1133	6.32
03...	1140	7.92	SEP		
MAR			13...	0858	7.93
08...	0950	8.15			

SARASOTA COUNTY

WELL NUMBER.--265834082202401. Englewood Water District Well 14 near Englewood, FL.

LOCATION.--Lat 26°58'34", long 82°20'24", in NE¼NE¼ sec.30, T.40 S., R.20 E., Hydrologic Unit 03100201, 1.0 mi north of State Highway 777, and 2.0 mi northeast of Englewood. Owner: Englewood Water District.

AQUIFER.--Hawthorn formation of Miocene Age, Geologic Unit 122 HTRN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 55 ft, cased to 43.5 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 10.72 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1977, land-surface datum was considered to be 10 ft, from topographic map. See PERIOD OF RECORD. Measuring point: Top of recorder shelter floor, 2.82 ft above land-surface datum. Prior to Jan. 17, 1979, top of recorder shelter floor, 2.88 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells. Extremes may have been exceeded during periods of missing record.

PERIOD OF RECORD.--April 1971 to current year, incomplete. Records of water levels prior to October 1975 are available in files of the Geological Survey. The figures of water level as elevation in feet, NGVD prior to Oct. 1, 1977, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of +0.72 ft. Revised records are in files of the Geological Survey. See DATUM.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 11.37 ft NGVD, Sept. 5, 1974; lowest, 0.39 ft below NGVD, Apr. 15, 1974.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.68	8.21	6.52	5.60	5.79	5.67	4.44	3.82	2.94	6.15	6.32	6.53
10	7.90	7.40	6.40	5.37	5.52	5.55	4.38	3.58	2.87	5.81	6.71	6.82
15	7.36	7.03	6.93	5.08	5.31	5.31	4.19	3.54	2.74	5.66	6.54	6.46
20	7.14	6.91	6.55	4.88	5.17	5.08	4.19	3.32	2.80	5.64	6.07	5.91
25	6.91	7.07	6.32	6.42	5.02	4.89	3.81	3.20	4.47	5.58	6.09	7.18
EOM	6.56	6.82	6.07	6.03	4.98	4.38	3.95	3.05	5.60	6.66	6.92	7.19
MAX	8.97	8.21	7.22	6.54	5.97	5.67	5.00	3.95	5.60	6.66	7.22	7.68

CAL YR 1988 MAX 9.75
WTR YR 1989 MAX 8.97

WELL NUMBER.--265834082202402. Englewood Water District Well 14A near Englewood, FL.

LOCATION.--Lat 26°58'34", long 82°20'24", in NE¼NE¼ sec.30, T.40 S., R.20 E., Hydrologic Unit 03100201, 1.0 mi north of State Highway 777, and 2.0 mi northeast of Englewood. Owner: Englewood Water District.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 20 ft, cased to 10 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 10.60 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1980, land-surface datum was considered to be 10 ft, from topographic map. See PERIOD OF RECORD. Measuring point: Top of 4 in. male adapter, 0.17 ft above land-surface datum. Prior to Sept. 7, 1979, top of casing, 3.0 ft above land-surface datum; Sept. 7, 1979, to May 6, 1980, top of broken casing, 0.7 ft above land-surface datum; May 6, 1980, to July 30, 1980, top of broken casing, 0.3 ft above land-surface datum; July 30, 1980, to Apr. 24, 1981, top of broken casing, at land-surface datum; Apr. 24, 1981, to Sept. 24, 1981, top of shelter floor, 1.27 ft above land-surface datum.

PERIOD OF RECORD.--October 1977 to September 1989 (bimonthly), incomplete (discontinued). The figures of water level as elevation in feet, NGVD prior to Oct. 1, 1980, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of +0.60 ft. Revised records are in files of the Geological Survey. See DATUM.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.81 ft NGVD, Aug. 5, 1983; lowest measured, 1.42 ft NGVD, July 30, 1980.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
17...	1004	8.51	03...	1035	4.58
DEC			JUL		
28...	1250	7.27	25...	1158	5.99
MAR					
08...	1020	6.48			

SARASOTA COUNTY

WELL NUMBER.--270036082213401. Englewood Test Well C-10 near Englewood, FL.

LOCATION.--Lat 27°00'36", long 82°21'34", in NW¼SW¼ sec.12, T.40 S., R.19 E., Hydrologic Unit 03100201, 1.4 mi east of State Highway 775, and 3.8 mi north of Englewood. Owner: Englewood Water District.

AQUIFER.--Hawthorn formation of Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 70 ft, cased to 41.5 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 15.93 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1979, land-surface datum was considered to be 12 ft, from topographic map. See PERIOD OF RECORD. Measuring point: Top of shelter floor, 3.00 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--August 1978 to September 1987; October 1987 to September 1989 (bimonthly), discontinued. Records of water levels prior to October 1978 are available in files of the Geological Survey. The figures of water level as elevation in feet, NGVD prior to Oct. 1, 1979, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of +3.93 ft. Revised records are in files of the Geological Survey. See DATUM.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 13.98 ft NGVD, Oct. 16, 1983; lowest, 5.70 ft NGVD, June 1, 1985.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
03...	1220	12.73	03...	1112	7.34
DEC			16...	1108	6.82
28...	1318	10.21	JUL		
MAR			25...	1232	11.24
08...	1050	10.49	SEP		
			13...	1108	10.38

WELL NUMBER.--270106082214101. Englewood Deep Zone Well 3 near Englewood, FL.

LOCATION.--Lat 27°01'06", long 82°21'41", in NE¼NW¼ sec.12, T.40 S., R.19 E., Hydrologic Unit 03100201, 2.2 mi south of U. S. Highway 41, 2.6 mi east of State Highway 775, and 3.9 mi north of Englewood. Owner: City of Sarasota.

AQUIFER.--Hawthorn formation of Miocene Age, Geologic Unit 122 HTRN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 135 ft, cased to 109 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 14.36 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 4.00 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--September 1979 to current year. Records of water levels prior to October 1979 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 15.39 ft NGVD, Sept. 30, 1979; lowest, 10.84 ft NGVD, May 28, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	13.87	13.30	13.22	12.88	12.82	12.58	12.09	11.55	10.39	12.62	13.18	13.22
10	13.84	13.34	13.17	12.84	12.62	12.58	11.86	11.48	11.10	12.71	13.06	13.31
15	13.57	13.23	13.28	12.76	12.50	12.57	11.69	11.29	11.10	12.74	13.09	13.29
20	13.36	13.13	13.28	12.68	12.53	12.57	11.73	11.07	11.16	12.85	12.38	13.38
25	13.22	13.24	13.23	12.92	12.44	12.41	11.52	11.01	11.58	12.34	13.04	13.54
EOM	13.03	13.29	13.07	12.94	12.54	12.31	11.46	11.01	12.23	13.15	13.19	13.67
MAX	13.32	13.37	13.35	13.08	12.93	12.67	12.26	11.58	12.23	13.15	13.21	13.67

CAL YR 1988 MAX 14.22
WTR YR 1989 MAX 13.92

SARASOTA COUNTY

WELL NUMBER.--270112082213301. Englewood Production Zone Well 8 near Englewood, FL.

LOCATION.--Lat 27°01'12", long 82°21'33", in NW¼NE¼ sec.12, T.40 S., R.19 E., Hydrologic Unit 03100201, 2.0 mi east of State Highway 775, 2.2 mi south of U. S. Highway 41, and 3.9 mi north of Englewood. Owner: Unknown.

AQUIFER.--Hawthorn formation of Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 70 ft, cased to 58 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 14.20 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 2.29 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--August 1979 to September 1989 (incomplete), discontinued. Records of water levels prior to October 1979 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 13.46 ft NGVD, Oct. 16, 1983; lowest, 14.78 ft below NGVD, Apr. 28, 1986.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.35	6.53	6.47	-2.62	5.39	4.32	-.35	2.32	-.31	5.54	6.30	6.54
10	7.61	6.82	5.78	-.35	3.18	4.53	3.21	-5.11	---	6.15	4.72	6.45
15	6.20	6.06	7.08	-4.36	4.30	-.41	2.19	1.96	---	6.13	6.03	5.57
20	5.37	6.45	6.60	-4.37	4.30	4.39	1.46	2.83	---	6.35	5.21	-.41
25	5.31	6.33	5.36	4.04	4.43	3.73	-4.12	3.55	---	7.53	5.20	5.83
EOM	5.03	6.09	5.35	4.55	5.03	-4.31	2.06	4.10	5.15	8.27	5.70	6.72
MAX	8.41	7.34	7.63	5.33	5.75	5.30	3.66	4.37	---	8.27	8.41	6.35

CAL YR 1988 MAX 9.80

WELL NUMBER.--270112082213302. Englewood Water Table Well 8A near Englewood, FL.

LOCATION.--Lat 27°01'12", long 82°21'33", in NW¼NE¼ sec.12, T.40 S., R.19 E., Hydrologic Unit 03100201, 2.0 mi east of State Highway 775, 2.2 mi south of U. S. Highway 41, and 3.9 mi north of Englewood. Owner: Englewood Water District.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 25 ft, cased to 20 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 14.19 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.50 ft above land-surface datum. Prior to Apr. 1, 1982, top of recorder shelter floor, 3.08 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--January 1980 to September 1989 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 13.59 ft NGVD, Sept. 8, 1981; lowest, 4.36 ft below NGVD, May 1, 1986.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.30	8.07	7.34	6.41	5.62	5.21	4.08	3.27	3.51	3.88	6.05	5.45
10	8.08	8.44	6.99	6.04	5.50	5.08	3.91	3.04	3.72	4.39	6.12	5.50
15	7.55	8.09	7.50	5.29	5.21	5.00	3.58	2.75	3.38	4.78	6.07	5.46
20	6.61	7.81	7.47	4.88	5.08	4.89	3.56	2.85	3.58	5.17	5.75	5.43
25	7.40	7.60	6.82	5.18	5.16	4.62	3.55	3.07	3.47	5.49	5.52	5.32
EOM	7.48	7.34	6.62	5.44	5.28	4.31	3.23	3.38	3.53	5.30	5.41	5.39
MAX	8.54	8.68	7.58	6.67	5.75	5.28	4.20	3.38	3.90	5.30	6.13	5.51

CAL YR 1988 MAX 9.75
WTR YR 1989 MAX 8.68

SARASOTA COUNTY

WELL NUMBER.--270113082223302. Englewood Production Zone Well 5 near Englewood, FL.

LOCATION.--Lat 27°01'13", long 82°22'33", in NW¼NE¼ sec.11, T.40 S., R.19 E., Hydrologic Unit 03100201, 0.9 mi east of State Highway 775, 2.0 mi south of U. S. Highway 41, and 3.9 mi north of Englewood. Owner: Englewood Water District.

AQUIFER.--Hawthorn formation of Miocene Age, Geologic Unit 122 HTRN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 70 ft, cased to 40 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 13.88 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.27 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--August 1979 to September 1989 (discontinued). Records of water levels prior to October 1979 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 13.00 ft NGVD, Oct. 16, 1983; lowest, 4.63 ft NGVD, Apr. 24, 1981.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	11.42	11.58	10.42	9.46	9.89	9.79	8.12	7.42	6.79	10.18	10.60	10.02
10	11.09	11.27	10.11	9.35	9.29	9.67	8.32	6.97	7.28	10.20	10.16	9.88
15	10.69	10.94	10.92	8.96	9.35	9.40	8.00	7.20	6.81	9.91	9.85	9.78
20	10.37	10.49	10.64	8.84	9.34	9.27	7.75	6.80	6.95	9.69	9.61	9.53
25	10.17	10.87	10.45	10.34	8.96	8.78	7.49	6.33	7.36	10.54	9.60	10.06
EOM	9.94	10.79	9.96	9.95	9.03	8.36	7.64	6.66	9.70	10.92	10.01	10.85
MAX	11.69	11.68	11.29	10.44	9.93	9.85	8.66	7.82	9.70	10.92	10.93	10.85

CAL YR 1988 MAX 12.81
WTR YR 1989 MAX 11.69

WELL NUMBER.--270113082223303. Englewood Water Table Well 5 near Englewood, FL.

LOCATION.--Lat 27°01'13", long 82°22'33", in NW¼NE¼ sec.11, T.40 S., R.19 E., Hydrologic Unit 03100201, 1.0 mi east of State Highway 775, 2.0 mi south of U. S. Highway 41, and 3.9 mi north of Englewood. Owner: Englewood Water District.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 15 ft, cased to 10 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 14.34 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 2.99 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--January 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 14.50 ft estimated, NGVD, Sept. 25, 1982; lowest, 7.59 ft NGVD, July 12, 1985.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	12.87	13.57	11.87	11.52	11.43	11.62	10.23	9.36	8.47	11.71	12.32	10.96
10	12.14	12.89	11.73	11.35	11.17	11.43	10.06	9.19	8.44	11.46	11.84	10.79
15	11.79	12.37	12.72	11.19	10.95	11.05	9.91	9.03	8.33	11.27	11.38	11.04
20	11.54	12.09	12.33	11.05	10.80	10.76	9.87	8.87	8.26	11.75	11.04	10.68
25	11.32	12.64	12.06	12.24	10.69	10.59	9.68	8.73	e8.70	12.06	11.02	12.41
EOM	11.09	12.28	11.79	11.69	10.64	10.39	9.52	8.59	11.37	12.38	11.06	12.34
MAX	13.40	13.68	13.40	12.87	11.63	11.81	10.36	9.50	11.87	12.34	12.83	12.71

CAL YR 1988 MAX 14.02
WTR YR 1989 MAX 13.68

e Estimated

SARASOTA COUNTY

WELL NUMBER.--270137082235301. Manasota Deep Well 14 near Englewood, FL.

LOCATION.--Lat 27°01'37", long 82°23'53", in NW¼SW¼ sec.3, T.40 S., R.19 E., Hydrologic Unit 03100201, 100 ft west of State Highway 775, and 5.0 mi northwest of Englewood. Owner: U.S. Geological Survey.

AQUIFER.--Hawthorn formation of Miocene Age, Geologic Unit 122 HTRN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 305 ft, cased to 263 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 15.92 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 10.60 ft above land-surface datum.

REMARKS.--Well also sampled for water quality.

PERIOD OF RECORD.--November 1966 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 22.70 ft NGVD, Nov. 30, 1971; lowest, 18.12 ft NGVD, May 27, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	20.81	20.19	19.87	19.75	19.63	19.16	18.88	18.77	18.34	19.62	20.07	20.19
10	20.53	19.93	20.05	19.63	19.48	19.00	18.71	18.67	18.43	19.72	20.02	20.25
15	20.32	19.86	20.05	19.56	19.42	19.14	18.70	18.55	18.46	19.73	19.94	20.35
20	20.28	19.80	20.02	19.54	19.46	19.20	18.81	18.32	18.81	19.79	19.82	20.37
25	20.27	19.94	20.07	19.38	19.19	19.12	18.68	18.22	18.99	19.80	20.00	20.43
EOM	19.99	20.05	19.87	19.67	19.08	19.00	18.76	18.26	19.44	19.98	20.23	20.39
MAX	20.91	20.26	20.23	19.86	19.67	19.24	18.96	18.85	19.44	19.98	20.23	20.49

CAL YR 1988 MAX 21.18
WTR YR 1989 MAX 20.91

WELL NUMBER.--270240082235701. ROMP TR 4-2 Suwannee Well near Venice, FL.

LOCATION.--Lat 27°02'40", long 82°23'57", in SW¼NW¼ sec.34, T.39 S., R.19 E., Hydrologic Unit 03100201, 0.2 mi east of State Highway 775, and 4.7 mi south of Venice. Owner: Southwest Florida Water Management District.

AQUIFER.--Tampa limestone of Miocene Age, Geologic Unit 122 TAMP.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 475 ft, cased to 460 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 15.89 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District). Measuring point: Top of recorder shelter floor, 11.60 ft above land-surface datum.

REMARKS.--Well also sampled for water quality.

PERIOD OF RECORD.--September 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 24.33 ft NGVD, Mar. 17, 1983; lowest, 20.68 ft NGVD, May 28, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	23.23	22.91	22.31	22.39	22.21	21.76	21.67	21.46	20.94	22.08	22.66	22.88
10	23.03	22.45	22.66	22.39	22.02	21.55	21.51	21.37	20.97	22.15	22.58	22.86
15	22.91	22.48	22.44	22.25	22.02	21.39	21.48	21.14	21.01	22.26	22.64	23.03
20	23.14	22.69	22.47	22.18	22.07	21.36	21.52	20.86	21.21	22.48	22.70	22.86
25	23.08	22.50	22.59	21.94	21.44	21.81	21.48	20.78	21.59	22.41	22.77	23.12
EOM	22.65	22.44	22.56	22.23	21.77	21.79	21.53	20.75	21.80	22.57	22.37	23.22
MAX	23.43	23.27	22.86	22.59	22.27	22.04	21.74	21.61	21.80	22.57	22.37	23.13

CAL YR 1988 MAX 23.66
WTR YR 1989 MAX 23.43

SARASOTA COUNTY

WELL NUMBER.--270542082261801. Venice Well 35 at Venice, FL.

LOCATION.--Lat 27°05'42", long 82°26'18", in SW¼SE¼ sec.7, T.39 S., R.19 E., Hydrologic Unit 03100201, 0.2 mi west of U. S. Highway 41, and 0.4 mi south of Venice. Owner: U.S. Geological Survey

AQUIFER.--Hawthorn formation of Miocene Age. Geologic Unit 122 HTRN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 163 ft, cased to 86 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 13.28 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 3.17 ft above land-surface datum. Prior to July 29, 1980, top of recorder shelter floor, 3.20 ft above land-surface datum.

REMARKS.--Water levels affected by tide. Extremes may have been exceeded during periods of missing record.

PERIOD OF RECORD.--October 1963 to current year, incomplete. Records of water levels prior to October 1975 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 9.88 ft NGVD, Sept. 5, 1974; lowest, 2.42 ft below NGVD, Apr. 30, 1971.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	5.74	5.82	4.38	4.56	4.32	5.07	4.83	4.34	4.42	6.27	5.78	6.42
10	5.55	4.86	4.85	4.10	3.35	4.77	5.03	4.42	4.11	6.08	5.31	6.53
15	4.33	4.71	5.16	2.86	3.46	4.82	4.41	4.60	4.41	5.64	5.59	6.23
20	4.74	4.81	4.36	3.77	4.30	5.17	4.30	4.03	4.56	5.35	5.60	5.83
25	4.60	5.10	5.23	4.65	4.77	4.35	4.42	4.30	5.19	6.33	6.13	6.36
EOM	4.20	5.26	4.82	4.50	4.67	4.31	4.80	4.24	5.93	6.37	5.89	7.03
MAX	6.21	5.82	5.33	4.36	4.82	5.17	5.03	4.95	5.33	6.47	6.47	7.14

CAL YR 1988 MAX 7.67
WTR YR 1989 MAX 7.14

SARASOTA COUNTY

WELL NUMBER.--270808082270502. ROMP TR 5-1 Suwannee Well at Laurel, FL.

LOCATION.--Lat 27°08'08", long 82°27'05", in NE¼NE¼ sec.36, T.38 S., R.18 E., Hydrologic Unit 03100201, 0.35 mi east of U. S. Highway 41, and 0.5 mi southeast of Laurel. Owner: Southwest Florida Water Management District.

AQUIFER.--Suwannee limestone of Oligocene Age, Geologic Unit 123 SWNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 510 ft, cased to 492 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 11.62 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 14.63 ft above land-surface datum.

REMARKS.--Well also sampled for water quality.

PERIOD OF RECORD.--July 1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 23.00 ft NGVD, Sept. 21, 1983; lowest, 16.20 ft NGVD, May 27, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	21.53	20.24	19.79	19.90	e18.90	e18.70	17.98	17.41	16.56	19.44	20.66	21.10
10	21.17	19.77	19.95	19.64	e18.80	18.51	17.91	17.25	16.72	19.55	20.49	21.37
15	20.82	19.69	20.03	19.36	e18.20	18.76	17.66	16.93	16.98	19.78	20.68	21.23
20	20.74	19.81	20.07	19.24	e18.20	18.63	17.73	16.48	17.45	20.20	20.83	21.30
25	20.52	20.06	20.11	e19.30	e17.90	18.38	17.60	16.39	18.29	20.25	20.97	21.44
EOM	20.05	19.95	20.04	e18.90	e18.30	18.16	17.56	16.35	18.37	20.51	21.09	21.44
MAX	21.66	20.49	20.16	20.03	19.20	18.77	18.07	17.70	18.87	20.51	21.10	21.51

CAL YR 1988 MAX 22.18
WTR YR 1989 MAX 21.66

e Estimated

WELL NUMBER.--270808082270503. ROMP TR 5-1 Hawthorn Well at Laurel, FL.

LOCATION.--Lat 27°08'08", long 82°27'05", in NE¼NE¼ sec.36, T.38 S., R.18 E., Hydrologic Unit 03100201, 0.35 mi east of U. S. Highway 41, and 0.5 mi southeast of Laurel. Owner: Southwest Florida Water Management District.

AQUIFER.--Hawthorn formation of Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 289 ft, cased to 275 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 11.62 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 11.10 ft above land-surface datum.

REMARKS.--Well also sampled for water quality.

PERIOD OF RECORD.--July 1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 16.40 ft NGVD, Sept. 21, 1983; lowest, 8.42 ft NGVD, May 27, June 5, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	14.59	12.97	12.19	12.13	11.72	11.66	10.38	9.45	8.42	12.63	13.11	13.89
10	13.74	12.15	12.30	11.68	11.62	11.65	10.55	9.40	8.39	12.33	12.85	14.33
15	13.24	11.63	12.77	11.46	11.22	11.40	10.18	9.19	8.76	12.28	12.90	14.01
20	12.79	12.01	12.27	11.11	10.94	11.04	10.21	8.75	9.93	12.96	13.32	13.93
25	12.34	13.24	12.29	11.93	10.69	11.15	9.58	8.76	11.29	12.93	13.53	14.41
EOM	12.44	12.66	12.26	11.43	10.93	10.37	9.86	9.03	12.09	13.11	13.75	14.70
MAX	14.60	13.28	12.77	12.22	11.96	11.67	10.75	10.14	12.09	13.11	13.87	14.74

CAL YR 1988 MAX 15.73
WTR YR 1989 MAX 14.74

SARASOTA COUNTY

WELL NUMBER.--270919082234205. ROMP TR 5-2 Suwannee Well near Laurel, FL.

LOCATION.--Lat 27°09'19", long 82°23'42", in NE¼SW¼ sec.22, T.38 S., R.19 E., Hydrologic Unit 03100201, 0.40 mi east of Haul Road, 1.25 mi north of Laurel Road, and 3.8 mi northeast of Laurel. Owner: Southwest Florida Water Management District.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 123 SWNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 700 ft, cased to 510 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Altitude of land-surface datum is 15 ft, from topographic map. Measuring point: Top of flange, 21.94 ft above land-surface datum.

PERIOD OF RECORD.--October 1988 to September 1989.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 29.38 ft NGVD, Oct. 1, 1988; lowest, 19.08 ft NGVD, May 31, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	29.10	26.38	26.46	27.00	25.74	23.14	22.57	21.32	19.34	24.37	27.91	28.73
10	28.79	26.22	26.73	26.63	25.46	23.30	22.31	20.93	19.84	25.19	27.84	28.38
15	28.27	26.25	26.84	26.11	24.95	23.74	21.99	20.39	20.25	25.86	28.10	28.11
20	27.71	26.23	26.88	25.70	24.37	23.63	21.99	19.78	21.26	26.49	27.30	28.17
25	27.37	26.27	27.15	25.36	23.60	23.31	21.39	19.45	22.46	26.82	28.39	28.35
EOM	26.60	26.42	27.19	25.63	23.29	23.02	21.67	19.08	23.40	27.43	28.63	28.39
MAX	29.38	26.55	27.21	27.20	25.77	23.77	22.94	21.69	23.40	27.43	28.63	29.21

WTR YR 1989 MAX 29.38

WELL NUMBER.--270952082095901. Mabry Carlton Well 13 near Myakka City, FL.

LOCATION.--Lat 27°09'52", long 82°09'59", in SE¼SW¼ sec.13, T.38 S., R.21 E., Hydrologic Unit 03100102, 2.0 mi south of State Highway 72, and 12.5 mi southwest of Myakka City Owner: Mabry Carlton

AQUIFER.--Tampa limestone of Miocene Age, Geologic Unit 122 TAMP.

WELL CHARACTERISTICS.--Drilled, irrigation, artesian well, diameter 6 in., depth 287 ft, cased to 65 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Altitude of land-surface datum is 30 ft, from topographic map. Measuring point: Top of recorder shelter floor, 12.15 ft above land-surface datum.

PERIOD OF RECORD.--May 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 40.41 ft NGVD, Sept. 12, 13, 1986; lowest, 28.18 ft NGVD, May 24, 1984.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	39.02	37.09	37.37	37.35	36.87	35.37	35.02	33.79	31.68	35.71	38.32	38.71
10	38.78	37.28	37.39	36.72	36.58	35.60	34.67	33.86	31.71	36.24	38.19	38.78
15	38.19	37.33	37.53	36.76	36.32	35.80	34.63	33.00	32.01	36.73	38.29	38.61
20	37.52	37.18	37.60	36.57	35.59	35.70	34.55	32.34	32.55	37.10	38.27	38.58
25	37.06	37.26	37.63	36.65	35.51	35.53	34.62	32.08	33.84	37.43	38.44	38.50
EOM	36.74	37.42	37.56	36.88	35.42	35.34	34.35	31.75	34.79	38.00	38.71	38.81
MAX	39.16	37.43	37.70	37.52	36.88	35.80	35.26	34.38	34.79	38.00	38.72	38.81

CAL YR 1988 MAX 40.17
WTR YR 1989 MAX 39.16

SARASOTA COUNTY

WELL NUMBER.--270959082203001. ROMP 19 WLAM Well near Sarasota, FL.

LOCATION.--Lat 27°09'59", long 82°20'30", in SW¼SE¼ sec.18, T.38 S., R.20 E., Hydrologic Unit 03100102, 5.2 mi south of State Highway 72, and 15.5 mi southeast of Sarasota. Owner: Southwest Florida Water Management District.

AQUIFER.--Suwannee limestone of Oligocene Age, Geologic Unit 123 SWNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 425 ft, cased to 410 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Altitude of land-surface datum is 20 ft, from topographic map. Measuring point: Top of casing, 13.62 ft above land-surface datum. Prior to Nov. 10, 1982, top of casing, 12.47 ft above land-surface datum.

PERIOD OF RECORD.--July 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 33.04 ft NGVD, Jan. 27, 1984; lowest, 18.94 ft NGVD, May 31, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	30.34	27.39	27.49	28.07	26.64	23.46	22.97	21.56	19.29	24.86	28.95	29.81
10	30.09	27.12	27.76	27.65	26.39	23.74	22.69	21.15	19.81	25.79	28.98	30.09
15	29.58	27.20	27.88	27.16	25.75	24.22	22.40	20.57	20.37	26.61	29.23	30.25
20	29.10	27.14	28.10	26.65	25.07	24.16	22.26	19.80	21.36	27.30	29.25	30.23
25	28.49	27.12	28.33	26.21	24.25	23.80	22.21	19.46	22.81	27.74	29.48	30.04
EOM	27.74	27.32	28.37	26.54	23.87	23.51	21.99	18.34	23.71	28.40	29.72	30.06
MAX	30.76	27.71	28.37	28.36	26.64	24.30	23.42	21.93	23.71	28.40	29.72	30.35

CAL YR 1988 MAX 31.58
WTR YR 1989 MAX 30.76

WELL NUMBER.--270959082203002. ROMP 19 WUAM Well near Sarasota, FL.

LOCATION.--Lat 27°09'59", long 82°20'30", in SW¼SE¼ sec.18, T.38 S., R.20 E., Hydrologic Unit 03100102, 5.2 mi south of State Highway 72, and 15.5 mi southeast of Sarasota. Owner: Southwest Florida Water Management District.

AQUIFER.--Hawthorn formation of Miocene Age, Geologic Unit 122 HTRN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 18 in., depth 205 ft, cased to 87 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Altitude of land-surface datum is 20 ft, from topographic map. Measuring point: Top of 4 in. coupling, 12.47 ft above land-surface datum.

PERIOD OF RECORD.--July 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 19.70 ft estimated, NGVD, Sept. 3, 1988; lowest, 12.11 ft NGVD, June 11, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	e17.70	17.98	17.43	e17.40	e16.50	e15.70	15.53	14.15	12.37	12.98	15.03	16.45
10	e18.00	17.67	17.44	e17.30	e16.70	e15.90	15.17	13.81	12.14	13.19	15.20	16.72
15	18.31	17.65	17.42	e17.10	e16.90	16.06	15.00	13.59	12.20	13.61	15.43	16.89
20	18.32	17.61	17.40	e16.90	e16.70	15.99	14.94	13.23	12.29	13.93	15.71	17.03
25	18.19	17.59	17.42	e16.60	e16.30	15.88	14.74	13.12	12.48	14.31	15.94	17.23
EOM	18.03	17.50	17.40	e16.30	e15.90	15.80	14.46	12.68	12.66	14.69	16.20	17.29
MAX	18.32	18.03	17.56	17.40	16.90	16.08	15.75	14.36	12.66	14.69	16.20	17.29

CAL YR 1988 MAX 19.70
WTR YR 1989 MAX 18.32

e Estimated

SARASOTA COUNTY

WELL NUMBER.--270959082203003. ROMP 19 WS Well near Sarasota, FL.

LOCATION.--Lat 27°09'59", long 82°20'30", in SW¼SE¼ sec.18, T.38 S., R.20 E., Hydrologic Unit 03100102, 5.2 mi south of State Highway 72, and 15.5 mi southeast of Sarasota. Owner: Southwest Florida Water Management District.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 67 ft, cased to 32 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Altitude of land-surface datum is 20 ft, from topographic map. Measuring point: Top of recorder shelter floor, 2.90 ft above land-surface datum.

PERIOD OF RECORD.--July 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 19.65 ft NGVD, Sept. 7, 1988; lowest, 13.56 ft NGVD, June 12, 1985.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	e17.80	17.63	16.75	16.13	16.18	16.73	15.29	14.55	13.80	e17.10	19.20	19.31
10	e17.10	17.07	16.48	15.95	15.94	16.64	15.10	14.40	13.75	e16.70	18.51	19.34
15	16.88	16.76	17.11	15.82	15.72	16.26	14.96	14.26	13.75	e17.40	17.82	19.03
20	16.66	16.54	16.78	15.71	15.56	16.01	15.11	14.14	14.16	e17.10	18.84	19.16
25	16.43	17.20	16.53	16.87	15.46	15.79	14.82	14.01	15.11	e19.50	19.05	19.39
EOM	16.16	16.96	16.28	16.46	15.38	15.52	14.69	13.91	15.93	e18.60	19.04	19.24
MAX	18.10	17.63	17.31	16.99	16.40	16.76	15.48	14.67	15.93	18.80	19.34	19.61

CAL YR 1988 MAX 19.65
WTR YR 1989 MAX 19.61

e Estimated

WELL NUMBER.--271021082151601. ROMP 19 ELAM Well near Sarasota, FL.

LOCATION.--Lat 27°10'21", long 82°15'16", in NE¼SE¼ sec.13, T.38 S., R.20 E., Hydrologic Unit 03100102, 2.5 mi south of State Highway 72, and 19 mi southeast of Sarasota. Owner: Southwest Florida Water Management District.

AQUIFER.--Suwannee limestone of Oligocene Age, Geologic Unit 123 SWNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 419 ft, cased to 410 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Altitude of land-surface datum is 31 ft, from topographic map. Measuring point: Top of coupling, 9.35 ft above land-surface datum. Prior to Nov. 10, 1982, top of casing, 9.0 ft above land-surface datum.

PERIOD OF RECORD.--July 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 40.19 ft NGVD, Jan. 27, 1984; lowest, 24.64 ft NGVD, May 31, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	36.98	33.86	34.27	34.78	33.24	29.39	29.11	27.69	24.99	31.28	35.76	36.64
10	36.98	33.66	34.58	34.25	32.95	29.93	28.87	27.19	25.59	32.30	35.93	36.94
15	36.28	33.82	34.69	33.66	32.11	30.57	28.51	26.40	26.45	33.19	36.09	37.10
20	35.31	33.74	34.90	33.10	31.28	30.43	28.46	25.59	27.45	33.93	36.14	37.14
25	35.11	33.67	35.15	32.57	30.44	30.03	28.46	25.13	28.81	34.44	36.28	36.84
EOM	34.26	33.99	35.14	33.09	30.02	29.77	28.11	24.64	30.03	35.17	36.56	36.82
MAX	37.60	34.21	35.17	35.13	33.24	30.61	29.60	27.99	30.03	35.17	36.56	37.19

CAL YR 1988 MAX 38.58
WTR YR 1989 MAX 37.60

SARASOTA COUNTY

WELL NUMBER.--271021082151602. ROMP 19 EUAM Well near Sarasota, FL.

LOCATION.--Lat 27°10'21", long 82°15'16", in NE¼SE¼ sec.13, T.38 S., R.20 E., Hydrologic Unit 03100102, 2.5 mi south of State Highway 72, and 19 mi southeast of Sarasota. Owner: Southwest Florida Water Management District.

AQUIFER.--Hawthorn formation of Miocene Age, Geologic Unit 122 HTRN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 18 in., depth 121 ft, cased to 80 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Altitude of land-surface datum is 31 ft, from topographic map. Measuring point: Top of 4 in. casing, 8.85 ft above land-surface datum.

PERIOD OF RECORD.--July 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 32.61 ft NGVD, Sept. 18, 19, 1983; lowest, 25.79 ft NGVD, June 8, 9, 10, 1985.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	31.46	30.46	30.25	29.92	29.95	29.44	28.51	27.46	26.58	29.66	31.01	31.41
10	31.31	30.61	30.17	29.74	29.70	29.61	28.32	27.30	26.37	29.69	30.72	31.49
15	30.34	30.48	30.33	29.61	29.47	29.52	28.22	27.05	26.22	29.33	31.08	31.22
20	30.77	30.28	30.28	29.49	29.32	29.27	28.05	27.10	26.37	29.98	31.13	31.10
25	30.47	30.37	30.23	30.06	29.01	29.05	27.83	27.20	27.32	30.40	31.28	31.13
EOM	30.16	30.32	30.05	30.13	29.02	28.86	27.68	26.85	29.03	30.80	31.40	31.59
MAX	31.46	30.61	30.41	30.15	30.10	29.61	28.73	27.64	29.03	30.80	31.42	31.59

CAL YR 1988 MAX 32.45
WTR YR 1989 MAX 31.59

WELL NUMBER.--271021082151603. ROMP 19 ES Well near Sarasota, FL.

LOCATION.--Lat 27°10'21", long 82°15'16", in NE¼SE¼ sec.13, T.38 S., R.20 E., Hydrologic Unit 03100102, 2.5 mi south of State Highway 72, and 19 mi southeast of Sarasota. Owner: Southwest Florida Water Management District.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in., depth 34.5 ft, cased to 14.5 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Altitude of land-surface datum is 31 ft, from topographic map. Measuring point: Top of flange, 3.31 ft above land-surface datum.

PERIOD OF RECORD.--July 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 32.22 ft NGVD, Sept. 7, 8, 1988; lowest, 24.94 ft NGVD, June 8, 1985.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	30.59	30.67	29.38	28.84	29.24	30.05	28.27	27.15	26.54	30.76	30.69	e30.55
10	29.91	29.90	29.18	28.68	28.95	29.71	27.98	26.95	26.36	29.95	30.21	e30.25
15	29.60	29.59	29.82	28.53	28.71	29.27	27.86	26.75	26.20	30.51	31.10	29.92
20	29.36	29.34	29.43	28.40	28.52	28.90	27.70	27.62	27.37	29.90	30.86	29.98
25	29.14	29.93	29.22	30.09	28.37	28.95	27.50	27.34	30.02	31.13	30.91	31.11
EOM	28.88	29.81	29.01	29.53	28.27	28.44	27.33	26.86	30.60	31.08	e30.80	30.78
MAX	30.82	30.67	30.17	30.49	29.48	30.23	28.38	27.62	30.74	31.13	31.16	31.19

CAL YR 1988 MAX 32.22
WTR YR 1989 MAX 31.19

e Estimated

SARASOTA COUNTY

WELL NUMBER.--271118082285301. Osprey Well 9 near Osprey, FL.

LOCATION.--Lat 27°11'18", long 82°28'53", in SW¼NW¼ sec.11, T.38 S., R.18 E., Hydrologic Unit 03100201, 0.3 mi east of U. S. Highway 41, and 1.0 mi southeast of Osprey. Owner: U.S. Geological Survey.

AQUIFER.--Hawthorn formation of Miocene Age, Geologic Unit 122 HTRN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 255 ft, cased to 157 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 14.37 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 10.06 ft above land-surface datum. Prior to Dec. 10, 1982, top of flange, 10.00 ft above land-surface datum.

PERIOD OF RECORD.--March 1966 to current year, incomplete. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 21.45 ft NGVD, July 10, 1968; lowest, 6.52 ft NGVD, May 28, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	e13.40	11.44	10.78	10.67	10.35	10.09	8.89	8.00	6.30	10.42	11.27	12.44
10	12.88	11.28	10.71	10.53	10.04	10.05	8.95	7.77	7.18	10.42	11.00	12.39
15	12.33	10.81	11.26	10.27	9.58	9.88	8.60	7.01	7.16	10.49	11.13	13.00
20	11.97	10.47	11.09	10.03	9.68	9.75	8.69	6.78	7.76	10.46	11.33	13.04
25	11.52	11.24	e11.05	10.55	9.65	9.53	8.18	6.71	8.72	10.92	11.88	13.26
EOM	11.09	11.31	10.69	10.43	9.76	9.30	8.12	6.85	9.81	11.27	12.20	13.59
MAX	13.50	11.51	11.31	10.81	10.36	10.23	9.12	8.30	9.81	11.27	12.20	13.59

CAL YR 1988 MAX 14.16
WTR YR 1989 MAX 13.59

e Estimated

SARASOTA COUNTY

WELL NUMBER.--271134082092201. Big Slough Deep Well near Arcadia, FL.

LOCATION.--Lat 27°11'34", long 82°09'22", in NE¼NE¼ sec.12, T.38 S., R.22 E., Hydrologic Unit 03100102, 30 ft south of State Highway 72, and 17.5 mi west of Arcadia. Owner: U.S. Geological Survey.

AQUIFER.--Hawthorn formation of Miocene Age, Geologic Unit 122 HTRN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 100 ft, cased to 79 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 33.26 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1982, land-surface datum was considered to be 33.23 ft above NGVD. See PERIOD OF RECORD. Measuring point: Top of PVC extension, 3.33 ft above land-surface datum.

PERIOD OF RECORD.--December 1977 to current year. The figures of water level as elevation in feet, NGVD prior to Oct. 1, 1982, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of +0.11 ft. Revised records are in files of the Geological Survey. See DATUM.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 35.92 ft NGVD, Oct. 6, 1982; lowest, 28.74 ft NGVD, June 15, 16, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	34.14	32.80	32.91	32.77	32.44	31.69	31.37	30.39	28.93	30.74	33.27	33.55
10	33.92	32.83	32.87	32.62	32.34	31.78	31.17	30.21	28.81	31.17	33.27	33.54
15	33.64	32.90	32.91	32.42	32.19	31.82	31.01	30.02	28.74	31.62	33.30	33.42
20	33.41	32.88	32.94	32.29	32.02	31.78	30.85	29.69	28.94	31.95	33.25	33.27
25	33.07	32.88	32.95	32.32	31.76	31.70	30.69	29.41	29.52	32.41	33.29	33.25
EOM	32.72	32.93	32.89	32.46	31.73	31.59	30.58	29.08	30.13	32.99	33.49	33.43
MAX	34.29	33.03	32.97	32.87	32.46	31.84	31.56	30.53	30.13	32.99	33.49	33.56

CAL YR 1988 MAX 35.52
WTR YR 1989 MAX 34.29

WELL NUMBER.--271134082092202. Big Slough Shallow Well near Arcadia, FL.

LOCATION.--Lat 27°11'34", long 82°09'22", in NE¼NE¼ sec.12, T.38 S., R.22 E., Hydrologic Unit 03100102, 30 ft south of State Highway 72, and 17.5 mi west of Arcadia. Owner: U.S. Geological Survey.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in., depth 25 ft, cased to 19 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 33.26 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1982, land-surface datum was considered to be 33.23 ft above NGVD. See PERIOD OF RECORD. Measuring point: Top of recorder shelter floor, 3.65 ft above land-surface datum.

REMARKS.--Well also sampled for water quality.

PERIOD OF RECORD.--December 1977 to current year. The figures of water level as elevation in feet, NGVD prior to Oct. 1, 1982, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of +0.07 ft. Revised records are in files of the Geological Survey. See DATUM.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 34.24 ft NGVD, Sept. 8, 1988; lowest, 25.80 ft NGVD, June 16, 18, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	30.17	30.00	29.13	28.62	28.77	29.08	28.14	27.16	26.04	28.92	30.32	30.15
10	29.65	29.90	28.94	28.49	28.59	29.14	27.96	26.96	25.95	28.82	29.94	29.72
15	29.36	29.59	29.28	28.37	28.40	28.92	27.81	26.79	25.83	29.53	29.80	29.41
20	29.13	29.34	29.08	28.26	28.30	28.76	27.66	26.58	26.17	29.37	29.67	29.26
25	28.89	29.60	28.89	29.07	28.24	28.60	27.47	26.42	27.35	30.42	29.84	29.67
EOM	28.65	29.33	28.74	28.94	28.18	28.33	27.32	26.27	28.21	30.57	30.12	30.51
MAX	30.19	30.07	29.40	29.07	28.92	29.15	28.31	27.28	28.21	30.67	30.62	30.53

CAL YR 1988 MAX 34.24
WTR YR 1989 MAX 30.67

SARASOTA COUNTY

WELL NUMBER.--271227082084801. Mabry Carlton Well No. 6 near Myakka City, FL.

LOCATION.--Lat 27°12'27", long 82°08'48", in NW¼NE¼ sec.6, T.38 S., R.22 E., Hydrologic Unit 03100102, 1.0 mi north of State Highway 72, and 9.5 mi southeast of Myakka City. Owner: M. Carlton & Sons.

AQUIFER.--Tampa limestone of Miocene Age, Geologic Unit 122 TAMP.

WELL CHARACTERISTICS.--Drilled, irrigation, artesian well, diameter 12 in., depth 369 ft, cased to 311 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Altitude of land-surface datum is 40 ft, from topographic map. Measuring point: Top of recorder shelter floor, 5.50 ft above land-surface datum.

PERIOD OF RECORD.--March 1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 41.10 ft NGVD, Jan. 25, 27, 1984; lowest, 25.14 ft NGVD, May 28, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	38.47	34.75	35.72	35.54	34.56	30.91	30.04	28.96	26.24	e31.20	36.72	37.74
10	37.82	35.25	35.87	34.99	33.64	31.88	30.47	27.76	26.55	e31.30	36.78	38.00
15	37.02	34.94	36.22	34.20	32.65	32.32	29.59	27.08	e27.40	e32.50	37.13	37.83
20	36.09	34.13	36.10	33.57	31.72	31.76	30.13	25.61	e28.30	e33.20	36.98	37.76
25	35.70	35.41	36.47	34.09	30.78	31.36	29.85	25.74	e28.90	e34.00	37.58	37.67
EOM	34.59	35.96	35.85	34.59	30.40	30.55	29.37	25.56	e30.00	e35.90	37.71	37.99
MAX	38.51	35.96	36.54	35.85	34.58	32.32	30.48	29.65	30.00	35.90	37.73	38.05

CAL YR 1988 MAX 39.95
WTR YR 1989 MAX 38.51

e Estimated

WELL NUMBER.--271601082330501. ROMP TR 6-1 Hawthorn Well near Sarasota, FL.

LOCATION.--Lat 27°16'01", long 82°33'05", in NW¼NE¼ sec.13, T.37 S., R.17 E., Hydrologic Unit 03100201, 40 ft south of State Highway 789A, 1.8 mi west of U. S. Highway 41, and 4.8 mi south of Sarasota. Owner: Southwest Florida Water Management District.

AQUIFER.--Hawthorn formation of Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 315 ft, cased to 300 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Altitude of land-surface datum is 5 ft, from topographic map. Measuring point: Top of recorder shelter floor, 10.0 ft above land-surface datum.

REMARKS.--Well also sampled for water quality.

PERIOD OF RECORD.--April 1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 12.04 ft NGVD, Sept. 22, 1985; lowest, 3.68 ft NGVD, May 26, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.91	e8.20	e7.95	7.93	8.53	8.00	6.46	5.36	6.05	8.30	8.46	10.49
10	8.98	e7.65	e7.45	7.96	7.63	7.66	5.72	5.50	5.04	8.01	7.55	10.81
15	8.37	e7.10	8.80	7.70	6.60	7.05	5.68	5.57	5.15	7.88	9.10	10.57
20	7.84	e7.45	8.28	7.42	7.26	6.68	5.03	4.54	7.37	7.38	9.26	10.46
25	8.35	e8.65	8.07	8.54	6.65	7.00	4.74	3.73	7.35	9.28	9.44	11.53
EOM	7.30	e8.30	8.52	8.01	6.98	6.80	5.64	5.78	8.30	9.46	9.53	10.83
MAX	10.33	8.65	8.99	8.79	8.54	8.28	7.22	6.80	8.34	9.46	10.24	11.53

CAL YR 1988 MAX 10.60
WTR YR 1989 MAX 11.53

e Estimated

SARASOTA COUNTY

WELL NUMBER.--271619082240201. Florida Cities Test Well 1 near Sarasota, FL.

LOCATION.--Lat 27°16'19", long 82°24'02", in SE¼SE¼ sec.9, T.37 S., R.19 E., Hydrologic Unit 03100201, 20 ft east of Bee Ridge Road, 1.0 mi north of State Highway 72, and 9.0 mi southeast of Sarasota. Owner: Florida Cities Utilities.

AQUIFER.--Suwannee limestone of Oligocene Age, Geologic Unit 123 SWNN.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 446 ft, cased to 104 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 34.26 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1977, land-surface datum was considered to be 36 ft, from topographic map. See PERIOD OF RECORD. Measuring point: Top of recorder shelter floor, 3.00 ft above land-surface datum. Prior to Feb. 22, 1977, top of recorder shelter floor, 3.20 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby irrigation wells. Extremes may have been exceeded during periods of missing record.

PERIOD OF RECORD.--March to December 1974 (fragmentary); January 1975 to current year, incomplete. Records of water levels prior to October 1975 are available in files of the Geological Survey. The figures of water level as elevation in feet, NGVD prior to Oct. 1, 1977, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of -1.74 ft. Revised records are in files of the Geological Survey. See DATUM.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 24.30 ft estimated, NGVD, Mar. 8, 9, 1978; lowest, 20.37 ft below NGVD, May 5, 1976.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	18.84	13.02	14.05	11.55	11.40	9.51	5.69	.21	.48	11.15	15.07	17.89
10	17.92	13.00	13.43	11.31	8.68	10.70	5.33	-1.29	2.02	11.88	14.64	18.74
15	15.57	11.36	14.79	9.40	8.05	9.06	3.48	-2.00	2.22	12.70	15.77	18.46
20	13.33	11.80	14.21	9.40	8.33	7.07	4.96	-.57	5.72	e13.30	15.71	18.79
25	11.97	13.71	13.94	12.82	5.49	7.58	3.41	-1.09	8.06	e14.00	16.32	18.91
EOM	11.16	14.40	12.22	12.41	6.36	7.14	1.55	-.18	10.02	15.17	17.19	19.22
MAX	18.95	14.40	15.03	13.13	12.53	10.70	6.06	1.81	10.02	15.17	17.29	19.22

CAL YR 1988 MAX 20.83
WTR YR 1989 MAX 19.22

e Estimated

SARASOTA COUNTY

WELL NUMBER.--271938082251801. Sarasota Well 9 near Sarasota, FL.

LOCATION.--Lat 27°19'38", long 82°25'18", in SW¼SE¼ sec.20, T.36 S., R.19 E., Hydrologic Unit 03100201, 0.8 mi south of State Highway 780, and 5.0 mi east of Sarasota. Owner: Palmer Corporation.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused irrigation, artesian well, diameter 8 in., depth 730 ft, cased to 101 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 33.56 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 4.00 ft above land-surface datum. Prior to Apr. 17, 1986, top of flange, 3.06 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby irrigation wells. Extremes may have been exceeded during periods of missing record.

PERIOD OF RECORD.--September 1930 to December 1931 (weekly); January 1932 to April 1937; November 1941 to current year, incomplete. Records of water levels prior to January 1943 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 38.76 ft NGVD, Mar. 7, 1931; lowest daily maximum water level, 1.19 ft NGVD, May 27, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	23.53	16.64	17.17	16.90	15.05	11.33	8.10	4.18	4.25	17.46	23.33	24.64
10	22.71	16.43	17.71	14.98	14.37	13.32	6.23	3.11	6.73	18.82	22.74	25.28
15	19.99	15.19	19.67	13.19	11.85	11.81	6.65	2.32	8.65	19.98	23.16	25.31
20	18.72	15.73	18.43	13.31	10.61	9.31	7.54	2.47	10.85	20.65	22.93	25.24
25	17.68	17.92	18.01	16.16	8.67	9.79	6.67	1.49	13.19	21.36	23.34	24.33
EOM	15.28	18.64	16.83	15.57	7.53	8.50	5.34	3.23	15.60	22.53	23.99	25.29
MAX	23.75	18.64	19.98	17.04	16.00	13.32	8.64	5.53	15.60	22.53	23.99	25.36

CAL YR 1988 MAX 26.77
WTR YR 1989 MAX 25.36

e Estimated

SARASOTA COUNTY

WELL NUMBER.--272020082194801. Verna T Well 0-4 near Verna, FL.

LOCATION.--Lat 27°20'20", long 82°19'48", in NE¼NW¼ sec.20, T.36 S., R.20 E., Hydrologic Unit 03100102, 60 ft north of State Highway 780, and 5.0 mi southwest of Verna. Owner: City of Sarasota.

AQUIFER.--Tampa limestone of Miocene Age, Geologic Unit 122 TAMP.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 500 ft, cased to 140 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Altitude of land-surface datum is 43 ft, from topographic map. Measuring point: Top of recorder shelter floor, 3.0 ft above land-surface datum.

PERIOD OF RECORD.--February 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 28.07 ft NGVD, Jan. 27, 1984; lowest, 6.04 ft below NGVD, May 28, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	20.71	13.15	15.88	15.52	12.77	5.04	2.84	-1.40	-3.38	12.24	19.32	20.82
10	19.95	13.96	15.94	13.75	11.30	7.52	2.31	-2.41	-.75	14.07	19.72	21.51
15	18.14	14.02	16.64	12.45	8.89	7.36	1.00	-3.78	1.76	15.53	19.78	21.79
20	16.50	13.30	17.42	10.92	6.66	5.39	2.12	-4.86	4.29	16.63	19.44	21.24
25	15.28	14.00	17.49	12.01	5.06	4.48	1.76	-5.38	7.11	17.46	19.74	20.52
EOM	13.55	15.1[illegible]	16.83	13.55	3.78	3.75	-.35	-4.37	9.78	18.79	20.54	21.23
MAX	21.00	15.13	17.57	16.54	13.61	7.58	3.64	-.68	9.78	18.79	20.54	21.82

CAL YR 1988 MAX 24.46
WTR YR 1989 MAX 21.82

WELL NUMBER.--272049082324401. City of Sarasota 11th Street Well at Sarasota, FL.

LOCATION.--Lat 27°20'49", long 82°32'44", in SW¼SW¼ sec.18, T.36 S., R.18 E., Hydrologic Unit 03100201, 30 ft north of 11th Street, 0.2 mi west of U. S. Highway 301, and 0.8 mi north of State Highway 780 at Sarasota. Owner: City of Sarasota.

AQUIFER.--Hawthorn formation of Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, unused public supply, artesian well, diameter 6 in., depth 479 ft, cased to 43 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 8.73 ft above National Geodetic Vertical Datum of 1929 (levels by city of Sarasota). Measuring point: Top of 8 in. flange, 13.34 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--April 1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 19.31 ft NGVD, Sept. 30, 1979; lowest, 1.87 ft NGVD, May 17, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	10.61	8.71	9.81	9.17	8.93	7.30	6.10	3.13	3.39	9.05	11.13	12.45
10	10.33	8.70	9.75	8.75	8.68	7.95	5.78	2.97	4.21	9.34	11.83	12.78
15	9.58	8.70	9.85	8.44	7.39	7.98	3.81	2.48	4.48	9.67	11.15	12.87
20	9.36	8.67	10.04	7.95	6.73	7.37	3.98	2.69	5.69	9.78	11.16	12.77
25	9.10	9.25	10.35	8.39	6.64	6.87	3.62	2.17	7.13	10.56	11.37	12.94
EOM	8.40	9.61	10.15	9.17	6.15	6.55	3.69	2.76	7.86	10.89	11.91	13.51
MAX	10.66	9.61	10.35	10.01	9.47	8.35	6.42	3.59	7.86	10.89	11.91	13.51

CAL YR 1988 MAX 12.27
WTR YR 1989 MAX 13.51

e Estimated

SARASOTA COUNTY

WELL NUMBER.--272053082320202. City of Sarasota Injection Monitor Well 2 at Sarasota, FL.

LOCATION.--Lat 27°20'53", long 82°32'05", in SE¼SE¼ sec.18, T.36 S., R.18 E., Hydrologic Unit 03100201, at city of Sarasota Sewage Treatment Plant, 0.25 mi west of U. S. Highway 301, and 0.8 mi north of State Highway 780 at Sarasota. Owner: City of Sarasota.

AQUIFER.--Avon Park formation of Eocene Age, Geologic Unit 124 AVPK.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 24 in., depth 1,500 ft, cased to 1,108 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 23.60 ft above National Geodetic Vertical Datum of 1929 (levels by city of Sarasota). Measuring point: Top of recorder shelter floor, 2.00 ft above land-surface datum. Prior to Oct. 1, 1981, top of 16 in. flange, 2.00 ft above land-surface datum.

PERIOD OF RECORD.--April 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 23.87 ft NGVD, Oct. 2, 1979; lowest, 7.30 ft NGVD, May 28, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	20.26	16.35	18.24	17.36	16.78	13.25	e12.20	9.36	9.11	17.73	20.57	21.54
10	19.39	16.37	18.05	16.81	15.79	14.59	e11.60	9.36	10.20	18.34	20.10	22.13
15	18.63	16.81	18.52	15.75	14.42	14.66	10.47	8.65	11.40	18.83	20.44	22.13
20	17.37	16.52	18.82	15.37	13.71	13.34	11.36	8.07	12.36	18.22	20.28	21.99
25	17.19	17.26	18.81	16.42	12.79	e13.30	11.36	7.73	14.77	19.61	20.61	22.39
EOM	15.31	18.07	18.33	17.12	12.13	e13.10	10.30	8.17	16.27	20.22	21.22	22.27
MAX	20.36	18.07	18.86	18.16	17.05	14.77	12.80	10.07	16.27	20.22	21.22	22.27

CAL YR 1988 MAX 22.50
WTR YR 1989 MAX 22.27

e Estimated

WELL NUMBER.--272113082325101. Whitaker Bayou Well at Sarasota, FL.

LOCATION.--Lat 27°21'19", long 82°32'51", in NE¼NE¼ sec.13, T.36 S., R.17 E., Hydrologic Unit 03100201, on right bank of Whitaker Bayou, 45 ft upstream from bridge on U. S. Highway 41, and 1.5 mi northwest of Sarasota. Owner: City of Sarasota.

AQUIFER.--Tampa limestone of Miocene Age, Geologic Unit 122 TAMP.

WELL CHARACTERISTICS.--Drilled, unused public supply, artesian well, diameter 12 in., depth 337 ft, cased to 94 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 9.93 ft above National Geodetic Vertical Datum of 1929 (levels by city of Sarasota). Prior to Aug. 8, 1979, land-surface datum was considered to be 0 ft, from topographic map. See PERIOD OF RECORD. Measuring point: Top of recorder shelter floor, 9.94 ft above land-surface datum. Prior to Aug. 8, 1979, top of recorder shelter floor, 5.92 ft above land-surface datum.

REMARKS.--Water levels affected by Gulf tides. Extremes may have been exceeded during periods of missing record.

PERIOD OF RECORD.--September 1962 to current year, incomplete. Records of water levels prior to October 1975 are available in files of the Geological Survey. The figures of water level as elevation in feet, NGVD prior to Oct. 1, 1978, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of +3.85 ft. Revised records are in files of the Geological Survey. See DATUM.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 16.05 ft estimated, NGVD, Aug. 12, 1978; lowest, 4.46 ft below NGVD, May 17, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	5.17	4.02	4.66	4.14	4.32	2.27	.45	-3.02	-.35	4.70	---	7.26
10	5.26	3.97	4.82	3.98	4.65	2.61	-.15	-3.32	-1.07	4.73	---	7.63
15	3.40	3.75	5.06	3.34	2.71	2.56	-2.40	-3.32	-.13	5.10	---	7.65
20	4.43	3.60	5.08	2.99	2.12	1.88	-1.95	-2.26	1.35	5.39	---	7.39
25	4.65	4.59	4.97	3.97	1.78	1.59	-3.21	-2.43	2.57	5.75	---	8.21
EOM	3.60	4.95	5.22	4.74	1.87	.90	-2.80	-.98	3.64	6.11	6.79	8.43
MAX	5.26	4.95	6.11	5.02	5.35	2.61	1.16	-.98	3.64	6.11	---	8.46

CAL YR 1988 MAX 6.51

SARASOTA COUNTY

WELL NUMBER.--272127082323801. City of Sarasota 23rd and Coconut Well near Sarasota, FL.

LOCATION.--Lat 27°21'27", long 82°32'38" in NW¼NW¼ sec.18, T.36 S., R.18 E., Hydrologic Unit 03100201, 200 ft north of 23rd Street, 0.5 mi east of Coconut Street, and 1.6 mi northwest of Sarasota. Owner: City of Sarasota.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 570 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 9.37 ft above National Geodetic Vertical Datum of 1929 (levels by City of Sarasota). Measuring point: Top of valve, 3.08 ft above land-surface datum.

PERIOD OF RECORD.--October 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 11.50 ft NGVD, Dec. 21, 1987; lowest, 7.89 ft below NGVD, May 17, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	4.99	3.00	4.36	6.23	6.00	1.71	-1.24	-5.82	-3.09	4.25	6.57	7.74
10	8.78	3.22	4.27	5.52	7.33	1.54	-2.42	-3.59	-2.21	4.70	6.32	7.79
15	6.29	3.06	4.51	4.94	4.31	1.71	-5.11	-5.58	-1.63	5.21	8.31	7.83
20	3.37	2.83	4.73	4.87	2.34	.94	-1.92	-3.77	.05	5.37	6.84	7.45
25	3.32	3.81	4.78	5.35	-.15	-.26	-3.20	-4.48	1.68	6.32	6.96	7.70
EOM	2.90	4.30	7.12	6.65	.02	-.73	-5.78	-3.59	2.83	8.57	7.10	7.36
MAX	8.78	5.69	10.11	9.20	9.11	2.33	2.67	-2.04	2.83	8.57	8.31	9.77

CAL YR 1988 MAX 10.11
WTR YR 1989 MAX 10.11

WELL NUMBER.--272129082330202. City of Sarasota Hickory Avenue Well near Sarasota, FL.

LOCATION.--Lat 27°21'29", long 82°33'02", in NE¼NE¼ sec.13, T.36 S., R.17 E., Hydrologic Unit 03100201, 200 ft east of Hickory Avenue, 0.2 mi west of U. S. Highway 41, and 1.7 mi northwest of Sarasota. Owner: City of Sarasota.

AQUIFER.--Upper Floridan Aquifer of Tertiary Age, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 8 in., depth 591 ft, cased to 38 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 18.13 ft above National Geodetic Vertical Datum of 1929 (levels by city of Sarasota). Measuring point: Top of 6 in. flange, 3.41 ft above land-surface datum.

REMARKS.--Water levels affected by pumpage of nearby production well.

PERIOD OF RECORD.--November 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 15.99 ft NGVD, Nov. 4, 1987; lowest, 28.54 ft below NGVD, May 17, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	-4.68	10.56	-8.85	-15.51	-16.70	-10.40	-15.14	-23.63	-15.73	-7.99	-4.92	-3.50
10	14.43	-9.67	-9.09	-16.74	-12.35	-15.08	-20.59	-11.25	-15.16	-7.53	-5.69	-4.56
15	-11.71	-10.00	-8.68	-17.53	8.11	10.82	-22.70	-11.38	-14.47	-6.55	-5.37	-5.49
20	-9.32	-10.36	-8.41	-18.20	-26.00	-15.69	-9.17	-13.31	-12.57	-6.69	-4.26	-5.12
25	-9.34	-8.82	-8.41	-17.21	-15.64	-16.97	4.52	-13.86	-9.70	-6.00	-5.05	-5.26
EOM	-9.33	-8.70	-7.89	-15.84	5.15	-17.31	-19.51	-16.19	-9.18	-5.01	-4.57	-4.96
MAX	14.43	10.65	-7.13	-8.14	8.11	10.82	8.02	5.22	3.51	-4.01	-.80	15.58

CAL YR 1988 MAX 15.17
WTR YR 1989 MAX 15.58

SARASOTA COUNTY

WELL NUMBER.--272133082324701. City of Sarasota 27th Street Well near Sarasota, FL.

LOCATION.--Lat 27°21'33", long 82°32'47", in NW¼NW¼ sec.18, T.36 S., R.18 E., Hydrologic Unit 03100201, 30 ft south of 27th Street, 0.2 mi east of U. S. Highway 41, and 1.8 mi northwest of Sarasota. Owner: City of Sarasota.

AQUIFER.--Tampa limestone of Miocene Age, Geologic Unit 122 TAMP.

WELL CHARACTERISTICS.--Drilled, unused, public supply well, diameter 12 in., depth 343 ft, cased to 45 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 6.84 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter floor, 18.14 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells. Extremes may have been exceeded during periods of missing record.

PERIOD OF RECORD.--August 1980 to current year, incomplete. Records of water levels prior to October 1980 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 20.90 ft NGVD, Sept. 1, 1981; lowest, 4.59 ft below NGVD, May 17, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.21	5.30	6.59	6.69	6.39	3.84	1.46	-2.68	-.74	6.38	8.53	9.63
10	9.50	5.31	6.52	6.07	8.08	---	.56	-1.15	.11	6.71	8.32	10.04
15	6.35	5.20	6.70	5.42	5.04	---	-2.13	-3.35	.57	7.16	8.51	10.04
20	6.01	5.05	6.99	5.13	3.35	3.12	.38	-1.38	2.16	7.35	8.41	9.91
25	5.79	5.86	7.03	5.83	1.87	2.44	-.73	-2.16	3.82	7.90	8.89	9.98
EOM	4.88	6.51	---	7.10	2.35	2.07	-2.65	-1.31	4.94	8.30	9.36	10.23
MAX	9.50	6.51	---	---	9.33	---	3.36	.15	4.94	8.30	9.46	10.55

WELL NUMBER.--272220082151401. KME Test Well 09 near Verna, FL.

LOCATION.--Lat 27°22'20", long 82°15'14", in SE¼SE¼ sec.1, T.36 S., R.20 E., Hydrologic Unit 03100102, in Verna well field, 0.9 mi east of Verna Road, and 1.1 mi southeast of Verna. Owner: City of Sarasota.

AQUIFER.--Tampa limestone of Miocene Age, Geologic Unit 122 TAMP.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 575 ft, cased to 123 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 72.92 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1977, land-surface datum was considered to be 78 ft, from topographic map. See PERIOD OF RECORD. Measuring point: Top of recorder shelter floor, 3.00 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells. Extremes may have been exceeded during periods of missing record.

PERIOD OF RECORD.--April to October 1964; April 1973 to current year, incomplete. Records of water levels prior to October 1975 are available in files of the Geological Survey. The figures of water level as elevation in feet, NGVD prior to Oct. 1, 1977, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of -5.11 ft. Revised records are in files of the Geological Survey. See DATUM.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 39.89 ft NGVD, Oct. 15, 1964; lowest, 22.91 ft below NGVD, May 28, June 4, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	14.93	4.97	---	---	5.80	---	-6.73	-17.14	-15.68	6.17	12.69	17.59
10	16.09	---	4.91	5.73	2.42	-1.98	-8.33	-14.15	-18.77	9.27	15.29	19.14
15	9.39	---	11.18	4.40	.47	-2.14	-10.53	-14.23	-8.51	10.04	15.16	13.52
20	10.04	5.95	---	-3.10	-.83	-2.29	-7.55	---	-4.35	11.54	17.01	16.24
25	8.54	---	12.17	---	-12.73	-9.30	-8.13	---	2.40	13.75	15.42	15.89
EOM	---	8.75	---	---	---	-12.94	-10.81	-15.81	-.21	14.83	16.78	13.98
MAX	---	---	---	---	---	---	-5.39	---	4.40	14.83	18.63	19.35

SARASOTA COUNTY

WELL NUMBER.--272248082175201. KME Well 14 A near Verna, FL.

LOCATION.--Lat 27°22'48", long 82°17'52", in SW¼NW¼ sec.3, T.36 S., R.20 E., Hydrologic Unit 03100201, 500 ft southeast of water plant at Verna well field, and 1.8 mi southwest of Verna. Owner: City of Sarasota.

AQUIFER.--Hawthorn formation of Miocene Age, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, unused public supply, artesian well, diameter 6 in., depth 107 ft, cased to 84 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 80.14 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1977, land-surface datum was considered to be 81 ft, from topographic map. See PERIOD OF RECORD. Measuring point: Top of flange, 3.65 ft above land-surface datum. Prior to Sept. 21, 1984, top of flange, 3.80 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells. Extremes may have been exceeded during periods of missing record.

PERIOD OF RECORD.--January 1973 to current year, incomplete. Records of water levels prior to October 1976 are available in files of the Geological Survey. The figures of water level as elevation in feet, NGVD prior to Oct. 1, 1977, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of -0.06 ft. Revised records are in files of the Geological Survey. See DATUM.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 49.36 ft NGVD, Sept. 9, 1988; lowest, 14.51 ft NGVD, Jan. 20, 1973.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	43.58	39.49	38.38	38.28	36.81	33.51	30.69	29.22	26.05	31.64	37.22	39.56
10	42.77	39.17	38.31	37.98	36.36	33.49	30.62	28.74	26.41	32.72	37.61	39.89
15	42.15	38.87	38.35	37.63	35.61	33.07	30.36	28.31	26.67	33.68	e37.90	40.43
20	41.08	38.50	38.69	37.01	34.88	32.84	30.14	27.41	27.55	34.63	38.64	40.59
25	40.66	38.37	38.89	36.99	34.33	32.02	30.00	26.79	29.04	35.61	38.97	40.89
EOM	39.92	38.38	38.70	37.36	33.90	31.35	29.73	26.24	30.34	e36.80	39.29	41.60
MAX	43.78	39.77	38.89	38.56	37.15	33.67	31.28	29.61	30.34	36.80	39.36	41.64

CAL YR 1988 MAX 49.36
WTR YR 1989 MAX 43.78

e Estimated

WELL NUMBER.--272255082172202. KME Recharge Well near Verna, FL.

LOCATION.--Lat 27°22'55", long 82°17'22", in SW¼NE¼ sec.3, T.36 S., R.20 E., Hydrologic Unit 03100201, at Verna Well Field, 0.5 mi east of water plant, and 1.5 mi southwest of Verna. Owner: City of Sarasota.

AQUIFER.--Avon Park formation of Eocene Age, Geologic Unit 124 AVPK.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 1,200 ft, cased to 800 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 78.77 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1977, land-surface datum was considered to be 78.90 ft above NGVD. See PERIOD OF RECORD. Measuring point: Top of recorder shelter floor, 4.00 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--June 1976 to current year. The figures of water level as elevation in feet, NGVD prior to Oct. 1, 1977, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of -0.13 ft. Revised records are in files of the Geological Survey. See DATUM.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 26.73 ft NGVD, Aug. 22, 1982; lowest, 16.29 ft below NGVD, May 27, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	17.56	7.91	11.39	9.81	7.61	-.57	-5.06	-10.95	-10.99	10.45	17.88	18.16
10	14.79	8.71	11.33	7.50	4.56	2.17	-6.58	-12.14	-6.76	12.13	16.15	18.98
15	12.07	8.34	13.25	5.83	1.32	.30	-7.35	-13.65	-2.97	13.47	17.29	18.62
20	10.12	7.22	13.66	3.54	-1.18	-3.09	-5.45	-15.49	.31	14.34	16.15	17.36
25	9.45	9.72	13.30	7.86	-4.43	-3.06	-6.85	-15.90	4.01	15.55	17.02	17.70
EOM	6.93	11.00	11.76	9.43	-4.49	-4.08	-10.42	-13.27	7.52	16.98	17.72	18.57
MAX	17.56	11.00	13.82	11.11	9.10	2.32	-4.49	-9.42	7.52	16.98	17.95	19.28

CAL YR 1988 MAX 22.71
WTR YR 1989 MAX 19.28

SARASOTA COUNTY

WELL NUMBER.--272257082180202. KME Water Table Well 11 near Verna, FL.

LOCATION.--Lat 27°22'57", long 82°18'02", in SW¼NW¼ sec.3, T.36 S., R.20 E., Hydrologic Unit 03100201, 500 ft west of water plant, and 1.9 mi southwest of Verna. Owner: City of Sarasota.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 21 ft, cased to 18 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Altitude of land-surface datum is 79 ft, from topographic map. Measuring point: Top of adapter, 3.2 ft above land-surface datum. Prior to June 5, 1989, top of adapter, 1.2 ft above land-surface datum.

PERIOD OF RECORD.--November 1972 to current year (bimonthly). Records of water levels prior to October 1977 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 79.62 ft NGVD, Oct. 11, 1973; lowest measured, 71.30 ft NGVD, May 29, 1985.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
07...	0933	77.45	15...	1041	73.48
DEC			JUN		
13...	0847	76.12	05...	1105	71.51
FEB			AUG		
09...	0955	74.90	03...	1140	75.69
APR			SEP		
10...	1202	73.65	11...	1418	76.50

WELL NUMBER.--272258082181701. KME Water Table Well 09 near Verna, FL.

LOCATION.--Lat 27°22'58", long 82°18'17", in SE¼NE¼ sec.4, T.36 S., R.20 E., Hydrologic Unit 03100201, 0.5 mi west of water plant in Verna well field, and 2.2 mi southwest of Verna. Owner: City of Sarasota.

AQUIFER.--Hawthorn formation of Miocene Age, Geologic Unit 122 HTRN.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 8 in., depth 42 ft, cased to 21 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 79.00 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 6 in. flange, 2.74 ft above land-surface datum. Prior to Feb. 6, 1979, top of recorder shelter floor, 2.80 ft above land-surface datum.

PERIOD OF RECORD.--February 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 79.23 ft NGVD, June 18, 1982, Sept. 7, 1988; lowest, 72.36 ft NGVD, June 8, 1985.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	77.44	76.76	75.52	75.28	75.46	75.49	74.53	73.83	72.88	74.56	75.81	77.38
10	76.67	76.23	75.38	75.18	75.25	75.46	74.36	73.68	72.75	74.44	75.56	77.44
15	76.40	75.93	75.89	75.08	75.07	75.29	74.28	73.52	72.60	74.21	76.41	76.55
20	76.22	75.68	75.66	74.98	74.93	75.07	74.22	73.37	72.45	74.01	76.04	76.73
25	76.00	76.10	75.53	76.03	74.81	74.87	74.12	73.19	73.79	74.00	76.54	78.04
EOM	75.73	75.78	75.38	75.71	74.75	74.68	73.99	73.03	74.20	75.04	76.07	77.37
MAX	77.85	76.80	76.01	76.12	75.66	75.49	74.65	73.96	74.20	75.04	76.54	78.09

CAL YR 1988 MAX 79.23
WTR YR 1989 MAX 78.09

SARASOTA COUNTY

WELL NUMBER.--272258082195301. KME Well 04 near Verna, FL.

LOCATION.--Lat 27°22'58", long 82°19'53", in NW¼NW¼ sec.5, T.36 S., R.20 E., Hydrologic Unit 03100201, at Verna well field, 2.0 mi west of water plant, and 3.9 mi southwest of Verna. Owner: City of Sarasota.

AQUIFER.--Tampa limestone of Miocene Age, Geologic Unit 122 TAMP.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 440 ft, cased to 91 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 62.25 ft above National Geodetic Vertical Datum of 1929 (levels by city of Sarasota). Measuring point: Top of recorder shelter floor, 3.18 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells. Extremes may have been exceeded during periods of missing record.

PERIOD OF RECORD.--March 1964 to current year, incomplete. Records of water levels prior to October 1975 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 47.33 ft NGVD, Apr. 5, 1964; lowest, 1.81 ft NGVD, May 28, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	24.06	19.17	19.97	19.64	17.41	12.12	9.91	6.12	2.92	e13.90	18.93	e21.20
10	23.54	19.36	19.97	18.48	16.52	13.34	9.32	5.28	4.40	e15.20	18.78	e21.30
15	22.42	19.24	20.45	17.50	15.20	13.18	8.49	4.17	5.93	e16.30	19.41	22.08
20	21.41	18.75	20.86	16.47	13.88	11.95	8.79	3.05	e7.80	e16.90	19.37	21.94
25	20.60	19.16	20.91	17.13	12.47	11.20	8.37	2.32	e10.00	e17.30	19.92	21.99
EOM	19.42	19.68	20.43	17.87	11.67	10.70	6.95	2.22	e12.00	e18.10	20.73	22.49
MAX	24.06	19.68	20.95	20.26	17.87	13.36	10.58	6.72	12.00	18.10	20.73	22.49

CAL YR 1988 MAX 25.70
WTR YR 1989 MAX 24.06

e Estimated

WELL NUMBER.--272258082195302. KME Well 04-A near Verna, FL.

LOCATION.--Lat 27°22'58", long 82°19'53", in NW¼NW¼ sec.5, T.36 S., R.20 E., Hydrologic Unit 03100201, at Verna well field, 2.0 mi west of water plant, and 3.9 mi southwest of Verna. Owner: City of Sarasota.

AQUIFER.--Nonartesian sand aquifer of Pleistocene/Pliocene Age, Geologic Unit 112 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 2 in., depth 20 ft, cased to 17 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 62.61 ft above National Geodetic Vertical Datum of 1929 (levels by city of Sarasota). Measuring point: Top of casing, 1.00 ft above land-surface datum.

PERIOD OF RECORD.--January 1965 to current year (bimonthly), incomplete. Records of water levels prior to October 1975 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 62.58 ft NGVD, Aug. 28, 1981; lowest measured, 55.65 ft NGVD, June 11, 1985.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
07...	1020	61.13	15...	0925	57.80
DEC			JUN		
13...	0935	60.52	05...	1210	57.04
FEB			AUG		
09...	1050	59.28	03...	1250	60.76
APR			SEP		
10...	1250	58.23	11...	1158	62.33

SARASOTA COUNTY

WELL NUMBER.--272301082191401. KME 02 Well near Verna, FL.

LOCATION.--Lat 27°23'01", long 82°19'14", in NE¼NE¼ sec.5, T.36 S., R.20 E., Hydrologic Unit 03100201, 1.5 mi west of water plant in Verna well field, and 3.4 mi southwest of Verna. Owner: City of Sarasota.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 16 in., depth 860 ft, cased to 356 ft.

INSTRUMENTATION.--Bimonthly measurement with steel tape.

DATUM.--Land-surface datum is 71.95 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1977, land-surface datum was considered to be 71 ft, from topographic map. See PERIOD OF RECORD. Measuring point: Top of shelter floor, 3.00 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells. Extremes may have been exceeded during periods of missing record.

PERIOD OF RECORD.--October 1964 to September 1987, incomplete; October 1987 to current year (bimonthly). Records of water levels prior to October 1976 are available in files of the Geological Survey. The figures of water level as elevation in feet, NGVD prior to Oct. 1, 1977, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of +0.95 ft. Revised records are in files of the Geological Survey. See DATUM.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 34.85 ft NGVD, Oct. 15, 1964; lowest measured, 14.85 ft below NGVD, May 15, 1989.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ELEVATION ABOVE NGVD (FEET)	DATE	TIME	ELEVATION ABOVE NGVD (FEET)
OCT			MAY		
07...	0959	15.68	15...	0955	-14.85
DEC			JUN		
13...	0911	10.11	05...	1130	-12.47
FEB			AUG		
09...	1022	3.84	03...	1215	16.67
APR			SEP		
10...	1230	-7.79	11...	1230	18.29

WELL NUMBER.--272308082161801. KME Well 08 at Verna, FL.

LOCATION.--Lat 27°23'08", long 82°16'18", in NE¼NE¼ sec.2, T.36 S., R.20 E., Hydrologic Unit 03100201, at Verna well field, 300 ft south of Manatee County line, and 0.2 mi southwest of Verna. Owner: City of Sarasota.

AQUIFER.--Tampa limestone of Miocene Age, Geologic Unit 122 TAMP.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in., depth 445 ft, cased to 126 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 95.94 ft above National Geodetic Vertical Datum of 1929 (levels by city of Sarasota). Prior to Oct. 1, 1977, land-surface datum was considered to be 96.34 ft above NGVD. See PERIOD OF RECORD. Measuring point: Top of flange, 2.60 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells. Extremes may have been exceeded during periods of missing record.

PERIOD OF RECORD.--March 1964 to current year, incomplete. Records of water levels prior to October 1975 are available in files of the Geological Survey. The figures of water level as elevation in feet, NGVD prior to Oct. 1, 1977, are in error. Correct elevations for data published prior to this date may be obtained by using datum correction of -0.40 ft. Revised records are in files of the Geological Survey. See DATUM.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 43.27 ft NGVD, Apr. 30, 1964; lowest, 24.32 ft below NGVD, May 26, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	12.71	2.88	5.88	7.13	e1.30	-5.42	-10.16	-16.85	-20.12	3.17	10.30	10.65
10	11.12	4.14	5.34	4.42	-.54	-3.22	-11.34	-19.29	-18.71	3.91	9.97	12.94
15	8.36	3.68	7.05	2.80	-2.43	-3.15	-14.72	-19.78	-14.43	5.84	10.44	10.10
20	6.79	2.20	7.56	-.79	-2.79	-5.56	-10.63	-23.39	-9.80	6.75	11.12	11.81
25	6.22	3.61	6.48	2.51	-5.83	-7.96	-11.99	-23.13	-4.27	[illegible].32	7.60	8.43
EOM	3.87	5.25	5.13	3.23	-5.65	-8.87	e-16.30	-21.59	-1.51	9.36	11.54	10.64
MAX	12.75	5.25	7.87	7.13	3.00	-1.69	-9.25	-14.86	-1.33	9.36	11.92	13.42

CAL YR 1988 MAX 19.61
WTR YR 1989 MAX 13.42

e Estimated

SARASOTA COUNTY

WELL NUMBER.--272316082302601. Sarasota County Test Well No. 1 near Sarasota, FL.

LOCATION.--Lat 27°23'16", long 82°30'26", in NE¼NW¼ sec.4, T.36 S., R.18 E., Hydrologic Unit 03100201, 1.4 mi east of U. S. Highway 301, and 4.1 mi northeast of Sarasota. Owner: City of Sarasota.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation well, diameter 4 in., depth 603 ft, cased to 350 ft (corrected).

INSTRUMENTATION.--Water-level recorder.

DATUM.--Land-surface datum is 35.00 ft above National Geodetic Vertical Datum of 1929 (levels by Sarasota County). Measuring point: Top of recorder shelter floor, 2.23 ft above land-surface datum.

PERIOD OF RECORD.--January 1985 to current year (incomplete).

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 21.89 ft NGVD, Sept. 1, 5, 1986; lowest, 2.95 ft below NGVD, May 18, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	13.54	16.01	14.44	---	3.68	1.34	-.41	3.30	15.00	19.05	19.98
10	---	14.29	15.48	8.73	7.18	10.92	.84	-1.43	1.22	16.00	18.38	20.51
15	---	9.92	16.45	7.65	9.40	10.66	.33	1.19	1.89	16.72	18.67	20.61
20	---	9.31	16.72	11.50	8.68	7.40	1.03	1.30	8.72	17.13	18.40	20.44
25	9.92	14.68	16.83	13.68	7.34	2.64	6.37	.88	10.30	17.75	18.88	20.24
EOM	8.06	15.79	11.17	9.87	2.12	2.12	-.44	.08	13.29	18.53	19.66	20.49
MAX	---	15.79	16.91	---	---	10.99	6.37	2.09	13.29	18.53	19.66	20.65

WELL NUMBER.--272317082290502. Sarasota County Test Well 6A near Sarasota, FL.

LOCATION.--Lat 27°23'17", long 82°29'05", in NE¼NE¼ sec.3, T.36 S., R.18 E., Hydrologic Unit 03100201, 2.9 mi east of U. S. Highway 301, and 5.0 mi northeast of Sarasota. Owner: City of Sarasota.

AQUIFER.--Floridan aquifer system of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation well, diameter 4 in., depth 527 ft, cased to 392 ft.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Altitude of land-surface datum is 27 ft, from topographic map. Measuring point: Top of recorder shelter floor, 3.00 ft above land-surface datum.

REMARKS.--Water levels affected by pumping of nearby public supply wells.

PERIOD OF RECORD.--October 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest daily maximum water level, 19.31 ft NGVD, Sept. 1, 1986; lowest, 14.52 ft below NGVD, May 18, 1989.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	15.28	9.28	12.30	10.61	9.67	4.22	-4.01	-11.37	-2.42	11.71	16.06	16.96
10	14.77	10.43	10.97	9.23	8.09	6.89	-5.85	-12.45	-9.60	12.87	15.26	17.58
15	12.48	10.30	13.01	5.89	5.64	6.37	-10.14	-5.34	-7.15	13.74	15.49	17.69
20	11.32	9.46	13.39	7.40	1.04	3.84	-7.77	-11.76	4.35	13.67	15.04	17.49
25	1.05	10.79	13.42	9.79	3.78	-1.27	1.25	-4.83	6.57	14.48	15.68	17.13
EOM	-.63	12.20	11.42	10.15	2.13	-5.39	-11.25	-8.35	9.68	15.41	16.62	17.51
MAX	15.62	12.20	13.49	11.42	10.05	6.94	1.26	-4.20	9.68	15.41	16.62	17.78

CAL YR 1988 MAX 18.94
WTR YR 1989 MAX 17.78

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1988 TO SEPTEMBER 1989

STATION NUMBER	STATION NAME	LAT-I-TUDE	LONG-I-TUDE	DATE	ELEV-ATION ABOVE NGVD (FEET)
	SARASOTA COUNTY				
265652082185801	ENGLEWOOD WELL 150 NR ENGLEWOOD, FL	26 56 52 N	082 18 58 W	05-16-89	6.37
				09-13-89	9.20
265653082190301	ENGLEWOOD WD PO 1	26 56 53 N	082 19 03 W	05-16-89	13.65
				09-13-89	15.65
265710082205101	ENGLEWOOD WD RD 2	26 57 10 N	082 20 51 W	05-16-89	-1.29
				09-13-89	3.40
270714082155201	BLKBRN RNCH WELL 121 NR N PORT CHARLOTTE	27 07 14 N	082 15 52 W	05-25-89	30.32
270807082152701	MACARTHUR TRACT WELL 14FS NR MURDOCK, FL	27 08 07 N	082 15 27 W	09-12-89	37.58
270807082152702	MACARTHUR TRACT WELL 14GS NR MURDOCK, FL	27 08 07 N	082 15 27 W	09-12-89	36.48
270814082192701	MACARTHUR TRACT WELL 3F NR MURDOCK, FL	27 08 14 N	082 19 27 W	05-23-89	24.83
				09-12-89	33.62
270814082192702	MACARTHUR TRACT WELL 3E NR MURDOCK, FL	27 08 14 N	082 19 27 W	05-23-89	15.68
				09-12-89	20.27
270822082231101	HENRY RANCH WELL 1 NR MURDOCK, FL	27 08 22 N	082 23 11 W	05-17-89	14.15
270840082225101	HENRY RANCH WELL 3 NR VENICE, FL	27 08 40 N	082 22 51 W	05-17-89	8.75
270919082234202	ROMP TR5-2 UPPER HAWTHORN MON NR LAUREL,FL	27 09 19 N	082 23 42 W	05-17-89	9.37
				09-12-89	13.90
270919082234203	ROMP TR5-2 LOWER HAWTHORN MON NR LAUREL,FL	27 09 19 N	082 23 42 W	05-17-89	18.56
				09-12-89	27.23
270919082234204	ROMP TR5-2 TAMPA MONITOR NR LAUREL,FL	27 09 19 N	082 23 42 W	05-17-89	18.09
				09-12-89	26.83
270919082234206	ROMP TR5-2 OCALA MONITOR NR LAUREL,FL	27 09 19 N	082 23 42 W	05-17-89	20.32
				09-12-89	28.90
270931082252901	38S19E20 70922501 411	27 09 31 N	082 25 29 W	05-17-89	16.50
				09-12-89	24.40
270933082154901	MACARTHUR TRACT WELL 14FN NR MURDOCK, FL	27 09 33 N	082 15 49 W	09-12-89	39.60
270934082252801	MYAKKA RIVER NURSERY WELL NR MURDOCK, FL	27 09 34 N	082 25 28 W	05-17-89	5.20
				09-12-89	11.18
271015082122901	MACARTHUR TRACT WELL 20F NR MURDOCK, FL	27 10 15 N	082 12 29 W	05-22-89	23.85
				09-12-89	37.92
271015082122902	RMR WELL 20C NR SARASOTA, FL 256 FT	27 10 15 N	082 12 29 W	05-22-89	26.40
				09-12-89	35.49
271035082285901	SOUTHBAY UTILITIES DEEP WELL NR OSPREY FL	27 10 35 N	082 28 59 W	05-16-89	10.53
				09-12-89	16.43
271059082173901	MACARTHUR TRACT WELL 6F NR MURDOCK, FL	27 10 59 N	082 17 39 W	09-14-89	32.95
271118082082401	MABRY CARLTON WELL 16 NEAR MYAKKA CITY,FL	27 11 18 N	082 08 24 W	05-15-89	27.75
				09-11-89	35.00
271137082074801	SWFWMD R-18-1	27 11 37 N	082 07 48 W	05-15-89	31.16
				09-11-89	41.20
271222082295201	SARASOTA COUNTY HISTORICAL SOCIETY WELL	27 12 22 N	082 29 52 W	05-16-89	5.02
				09-12-89	10.92
271450082292601	I.Z. MANN GOLF CSC WELL NR SARASOTA	27 14 50 N	082 29 26 W	05-16-89	18.10
				09-12-89	28.80
271522082165801	PALMER WELL NR SARASOTA, FL	27 15 22 N	082 16 58 W	05-15-89	3.30
				09-11-89	16.65
271717082332601	MARTIN D WELL AT SIESTA KEY	27 17 17 N	082 33 26 W	05-18-89	8.40
				09-12-89	17.10
271757082241301	BEE RIDGE WELL 15 NR SARASOTA,FLA	27 17 57 N	082 24 13 W	05-15-89	-6.70
				09-11-89	24.50
272127082295301	KENSINGTON PARK WELL 1 NR SARASOTA, FL	27 21 27 N	082 29 53 W	05-18-89	-1.45
				09-11-89	17.07

STATION NUMBER	STATION NAME	LAT-I-TUDE	LONG-I-TUDE	DATE	ELEV-ATION ABOVE NGVD (FEET)
	SARASOTA COUNTY				
272206082151101	VERNA W T WELL 23	27 22 06 N	082 15 11 W	05-15-89	61.46
				09-11-89	65.36
272209082152001	VERNA W T WELL 22	27 22 09 N	082 15 20 W	05-15-89	64.28
				09-11-89	68.17
272211082151901	VERNA WT WELL 21 NR VERNA, FL	27 22 11 N	082 15 19 W	05-15-89	68.61
				09-11-89	72.40
272218082151201	VERNA W T WELL 20	27 22 18 N	082 15 12 W	05-15-89	64.53
				09-11-89	67.87
272218082152701	VERNA PROD WELL 35	27 22 18 N	082 15 27 W	05-15-89	-14.95
				09-11-89	17.55
272220082151201	VERNA PROD WELL 36	27 22 20 N	082 15 12 W	05-15-89	-13.69
				09-11-89	18.08
272223082152201	VERNA W T WELL 25	27 22 23 N	082 15 22 W	05-15-89	70.66
272225082152001	VERNA PROD WELL 34	27 22 25 N	082 15 20 W	05-15-89	-14.74
				09-11-89	16.56
272225082152201	VERNA W T WELL 19	27 22 25 N	082 15 22 W	05-15-89	71.24
				09-11-89	75.67
272226082153401	VERNA W T WELL 26	27 22 26 N	082 15 34 W	09-11-89	86.58
272236082155801	VERNA W T WELL 27	27 22 36 N	082 15 58 W	09-11-89	93.57
272245082151501	VERNA W F SHALLOW WELL 28 NR RASOTA, FLA	27 22 45 N	082 15 15 W	05-15-89	90.19
				09-11-89	94.93
272247082170201	VERNA PROD WELL 23	27 22 47 N	082 17 02 W	05-15-89	-24.15
				09-11-89	10.36
272248082164501	VERNA PROD WELL 26	27 22 48 N	082 16 45 W	05-15-89	18.88
272248082173601	VERNA PROD WELL 17	27 22 48 N	082 17 36 W	09-11-89	8.39
272248082175301	VERNA PROD WELL 14	27 22 48 N	082 17 53 W	09-11-89	14.29
272248082181701	VERNA PROD WELL 8	27 22 48 N	082 18 17 W	09-11-89	17 06
272248082184601	VERNA PROD WELL 5	27 22 48 N	082 18 46 W	09-11-89	17.00
272251082184001	VERNA W T WELL 7	27 22 51 N	082 18 40 W	05-15-89	69.73
				09-11-89	73.13
272252082165001	VERNA W T WELL 30	27 22 52 N	082 16 50 W	09-11-89	78.30
272253082163001	VERNA W T WELL 29	27 22 53 N	082 16 30 W	05-15-89	84.55
				09-11-89	87.80
272253082174001	VERNA W T WELL 14	27 22 53 N	082 17 40 W	09-11-89	75.92
272253082195401	VERNA KME T WELL 4	27 22 53 N	082 19 54 W	05-15-89	-11.47
				09-11-89	20.28
272253082195402	VERNA W T WELL 1	27 22 53 N	082 19 54 W	05-15-89	60.25
272254082171701	VERNA W T WELL 17	27 22 54 N	082 17 17 W	05-15-89	73.52
				09-11-89	77.39
272255082172201	VERNA WF DRAIN WELL AT VERNA	27 22 55 N	082 17 22 W	05-15-89	-13.85
272255082180202	VERNA W T WELL 12	27 22 55 N	082 18 02 W	05-15-89	72.90
				09-11-89	76.95
272256082163501	VERNA PROD WELL 27	27 22 56 N	082 16 35 W	05-15-89	-21.42
				09-11-89	12.88
272256082173401	VERNA W T WELL 15	27 22 56 N	082 17 34 W	05-15-89	74.53
				09-11-89	78.68
272256082183701	VERNA W T WELL 8	27 22 56 N	082 18 37 W	05-15-89	68.67
				09-11-89	72.39
272257082165401	VERNA PROD WELL 24	27 22 57 N	082 16 54 W	05-15-89	-27.13

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1988 TO SEPTEMBER 1989

STATION NUMBER	STATION NAME	LAT-I-TUDE	LONG-I-TUDE	DATE	ELEV-ATION ABOVE NGVD (FEET)
	SARASOTA COUNTY				
272257082171001	VERNA PROD WELL 21	27 22 57 N	082 17 10 W	05-15-89	-22.26
272257082172801	VERNA PROD WELL 18	27 22 57 N	082 17 28 W	09-11-89	12.30
272257082173301	VERNA W T WELL 16	27 22 57 N	082 17 33 W	05-15-89	69.77
				09-11-89	76.81
272257082174401	VERNA PROD WELL 15	27 22 57 N	082 17 44 W	09-11-89	2.82
272257082180201	VERNA PROD WELL 12	27 22 57 N	082 18 02 W	09-11-89	16.29
272257082181801	VERNA PROD WELL 9	27 22 57 N	082 18 18 W	09-11-89	17 85
272257082183601	VERNA PROD WELL 6	27 22 57 N	082 18 36 W	05-15-89	23 17
				09-11-89	14.39
272258082184901	VERNA W T WELL 5	27 22 58 N	082 18 49 W	05-15-89	67.32
				09-11-89	71.29
272258082193601	VERNA W T WELL 31	27 22 58 N	082 19 36 W	05-15-89	59.37
				09-11-89	63.18
272305082185701	VERNA W T WELL 3	27 23 05 N	082 18 57 W	05-15-89	67.28
				09-11-89	71.78
272306082182701	VERNA PROD WELL 7	27 23 06 N	082 18 27 W	09-11-89	-0.22
272306082184601	VERNA PROD WELL 4	27 23 06 N	082 18 46 W	05-15-89	-39.64
				09-11-89	0.49
272307082170201	VERNA PROD WELL 22	27 23 07 N	082 17 02 W	05-15-89	-20.77
272307082173701	VERNA PROD WELL 16	27 23 07 N	082 17 37 W	05-15-89	-29.19
				09-11-89	6.21
272307082173801	KME WELL 16A	27 23 07 N	082 17 38 W	05-15-89	23.43
				09-11-89	35.96
272317082302402	CNTY PUMP STA 1 3 IN WELL NR SARASOTA, FL	27 23 17 N	082 30 24 W	05-18-89	-1.13
				09-11-89	19.19

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
SARASOTA COUNTY								
270240082235701 ROMP TR4-2 WELL NR VENICE FL (LAT 27 02 40N LONG 082 23 57W)								
JAN 1989								
20...	1248	2250	--	27.0	--	--	--	--
APR								
13...	1015	2250	--	27.0	--	--	--	--
MAY								
25...	1350	2250	--	28.0	--	--	--	--
270808082270502 ROMP TR5-1 SUWANNEE WELL AT LAUREL,FL. (LAT 27 08 08N LONG 082 27 05W)								
JAN 1989								
20...	1345	2500	--	28.0	--	--	--	--
APR								
19...	1325	2500	--	28.0	--	--	--	--
270808082270503 ROMP TR5-1 HAWTHORN WELL AT LAUREL,FL. (LAT 27 08 08N LONG 082 27 05W)								
JAN 1989								
20...	1325	2300	--	26.5	--	--	--	--
APR								
19...	1345	2300	--	27.0	--	--	--	--
271021082151603 ROMP 19 ES WELL NEAR SARASOTA, FL (LAT 27 10 21N LONG 082 15 16W)								
DEC 1988								
14...	1300	1020	7.10	23.0	--	--	--	--
MAR 1989								
13...	1515	670	7.10	22.0	--	--	--	--
SEP								
12...	1350	--	7.10	24.0	30	120	26	51
271601082330501 ROMP TR 6-1 HAWTHORN WELL NEAR SARASOTA FL (LAT 27 16 01N LONG 082 33 05W)								
OCT 1988								
10...	1210	3100	--	28.0	--	--	--	--
DEC								
12...	1130	3120	--	27.0	--	--	--	--
FEB 1989								
10...	1001	3100	--	27.0	--	--	--	--
APR								
13...	0930	3100	--	27.5	--	--	--	--
MAY								
22...	1300	3300	7.26	28.0	--	280	180	200
AUG								
09...	0800	3300	--	27.5	--	--	--	--
272038082292401 BOBBY JONES WELL 3 NR SARASOTA, FL (LAT 27 20 38N LONG 082 29 24W)								
MAY 1989								
03...	1028	1000	--	26.5	<5	100	47	29
272047082291501 BOBBY JONES WELL 3 NR SARASOTA, FL (LAT 27 20 47N LONG 082 29 15W)								
MAY 1989								
22...	1430	1220	7.60	26.0	--	120	55	43
SEP								
07...	1030	1180	--	26.0	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	STRONTIUM, DISSOLVED (UG/L AS SR)
SARASOTA COUNTY							
270240082235701 ROMP TR4-2 WELL NR VENICE FL (LAT 27 02 40N LONG 082 23 57W)							
JAN 1989							
20...	--	800	280	--	--	--	--
APR							
13...	--	730	270	--	--	--	--
MAY							
25...	--	740	270	--	--	--	--
270808082270502 ROMP TR5-1 SUWANNEE WELL AT LAUREL,FL. (LAT 27 08 08N LONG 082 27 05W)							
JAN 1989							
20...	--	1300	52	--	--	--	--
APR							
19...	--	1400	56	--	--	--	--
270808082270503 ROMP TR5-1 HAWTHORN WELL AT LAUREL,FL. (LAT 27 08 08N LONG 082 27 05W)							
JAN 1989							
20...	--	1100	31	--	--	--	--
APR							
19...	--	1300	35	--	--	--	--
271021082151603 ROMP 19 ES WELL NEAR SARASOTA, FL (LAT 27 10 21N LONG 082 15 16W)							
DEC 1988							
14...	--	--	--	--	--	--	--
MAR 1989							
13...	--	--	--	--	--	--	--
SEP							
12...	1.0	110	64	0.30	20	616	540
271601082330501 ROMP TR 6-1 HAWTHORN WELL NEAR SARASOTA FL (LAT 27 16 01N LONG 082 33 05W)							
OCT 1988							
10...	--	--	470	--	--	--	--
DEC							
12...	--	--	470	--	--	--	--
FEB 1989							
10...	--	--	470	--	--	--	--
APR							
13...	--	--	480	--	--	--	--
MAY							
22...	14	1100	500	1.9	24	2610	26000
AUG							
09...	--	--	480	--	--	--	--
272038082292401 BOBBY JONES WELL 3 NR SARASOTA, FL (LAT 27 20 38N LONG 082 29 24W)							
MAY 1989							
03...	4.6	350	39	1.7	29	781	53000
272047082291501 BOBBY JONES WELL 3 NR SARASOTA, FL (LAT 27 20 47N LONG 082 29 15W)							
MAY 1989							
22...	5.3	400	70	1.9	28	906	24000
SEP							
07...	--	440	47	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
SARASOTA COUNTY							
272053082320202 STA INJ DP MTR 2 (LAT 27 20 53N LONG 082 32 02W)							
MAY 1989							
08...	0930	7000	29.5	--	--	--	--
SEP							
07...	0845	7500	29.5	--	--	--	--
272127082323801 CITY OF SARASOTA AND COCONUT (LAT 27 21 27N LONG 082 32 38W)							
SEP 1989							
07...	0915	2440	27.5	--	--	--	--
272213082154901 VERNA PROD WELL 38 (LAT 27 22 13N LONG 082 15 49W)							
MAY 1989							
03...	0854	850	26.5	<5	95	44	15
272218082152701 VERNA PROD WELL 35 (LAT 27 22 18N LONG 082 15 27W)							
MAY 1989							
02...	0826	1000	28.0	--	--	--	--
272219082151701 VERNA PROD WELL 37 (LAT 27 22 19N LONG 082 15 17W)							
MAY 1989							
02...	0838	770	26.5	--	--	--	--
272220082151201 VERNA PROD WELL 36 (LAT 27 22 20N LONG 082 15 12W)							
MAY 1989							
02...	0832	720	26.5	--	--	--	--
272225082152001 VERNA PROD WELL 34 (LAT 27 22 25N LONG 082 15 20W)							
MAY 1989							
02...	0821	950	27.5	--	--	--	--
272225082153501 VERNA PROD WELL 33 (LAT 27 22 25N LONG 082 15 35W)							
MAY 1989							
03...	0909	1040	27.5	<5	130	58	14
272233082151101 VERNA PROD WELL 32 (LAT 27 22 33N LONG 082 15 11W)							
MAY 1989							
02...	0817	970	26.5	--	--	--	--
272233082152701 VERNA PROD WELL 31 (LAT 27 22 33N LONG 082 15 27W)							
MAY 1989							
02...	0810	990	27.5	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	STRONTIUM, DISSOLVED (UG/L AS SR)
SARASOTA COUNTY							
272053082320202 STA INJ DP MTR 2 (LAT 27 20 53N LONG 082 32 02W)							
MAY 1989							
08...	--	--	1800	--	--	--	--
SEP							
07...	--	--	2000	--	--	--	--
272127082323801 CITY OF SARASOTA AND COCONUT (LAT 27 21 27N LONG 082 32 38W)							
SEP 1989							
07...	--	870	300	--	--	--	--
272213082154901 VERNA PROD WELL 38 (LAT 27 22 13N LONG 082 15 49W)							
MAY 1989							
03...	2.4	280	21	1.0	27	651	24000
272218082152701 VERNA PROD WELL 35 (LAT 27 22 18N LONG 082 15 27W)							
MAY 1989							
02...	--	--	--	--	--	--	--
272219082151701 VERNA PROD WELL 37 (LAT 27 22 19N LONG 082 15 17W)							
MAY 1989							
02...	--	--	--	--	--	--	--
272220082151201 VERNA PROD WELL 36 (LAT 27 22 20N LONG 082 15 12W)							
MAY 1989							
02...	--	--	--	--	--	--	--
272225082152001 VERNA PROD WELL 34 (LAT 27 22 25N LONG 082 15 20W)							
MAY 1989							
02...	--	--	--	--	--	--	--
272225082153501 VERNA PROD WELL 33 (LAT 27 22 25N LONG 082 15 35W)							
MAY 1989							
03...	2.6	420	16	1.0	25	848	20000
272233082151101 VERNA PROD WELL 32 (LAT 27 22 33N LONG 082 15 11W)							
MAY 1989							
02...	--	--	--	--	--	--	--
272233082152701 VERNA PROD WELL 31 (LAT 27 22 33N LONG 082 15 27W)							
MAY 1989							
02...	--	--	--	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	TEMPERATURE WATER (DEG C)	COLOR (PLATINUM-COBALT UNITS)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
SARASOTA COUNTY								
272247082170201 VERNA PROD WELL 23 (LAT 27 22 47N LONG 082 17 02W)								
MAY 1989								
02...	1048	--	1100	26.5	<5	120	62	15
272248082162801 VERNA PROD WELL 29 (LAT 27 22 48N LONG 082 16 28W)								
MAY 1989								
02...	1159	--	1120	27.0	<5	130	60	13
272248082164501 VERNA PROD WELL 26 (LAT 27 22 48N LONG 082 16 45W)								
MAY 1989								
02...	1113	--	1120	27.0	--	--	--	--
272248082171901 VERNA PROD. WELL 20 (LAT 27 22 48N LONG 082 17 19W)								
MAY 1989								
02...	1011	--	1040	26.5	--	--	--	--
272248082173601 VERNA PROD WELL 17 (LAT 27 22 48N LONG 082 17 36W)								
MAY 1989								
02...	1004	--	930	26.0	--	--	--	--
272248082175301 VERNA PROD WELL 14 (LAT 27 22 48N LONG 082 17 53W)								
MAY 1989								
02...	0952	--	1030	26.5	<5	110	56	16
272248082180801 VERNA PROD WELL 11 (LAT 27 22 48N LONG 082 18 08W)								
MAY 1989								
02...	0918	--	1120	28.0	--	--	--	--
272248082181701 VERNA PROD WELL 8 (LAT 27 22 48N LONG 082 18 17W)								
MAY 1989								
02...	0848	--	1060	27.5	--	--	--	--
272248082184601 VERNA PROD WELL 5 (LAT 27 22 48N LONG 082 18 46W)								
MAY 1989								
02...	0832	--	1100	27.0	--	--	--	--
272248082190301 VERNA PROD WELL 2 (LAT 27 22 48N LONG 082 19 03W)								
MAY 1989								
02...	0827	--	1080	27.0	--	--	--	--
272255082172202 KME RECHARGE WELL NEAR VERNA,FLA (LAT 27 22 55N LONG 082 17 22W)								
JUL 1989								
28...	1110	500	1580	24.5	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	STRONTIUM, DISSOLVED (UG/L AS SR)
SARASOTA COUNTY							
272247082170201 VERNA PROD WELL 23 (LAT 27 22 47N LONG 082 17 02W)							
MAY 1989							
02...	2.9	430	18	1.5	29	882	20000
272248082162801 VERNA PROD WELL 29 (LAT 27 22 48N LONG 082 16 28W)							
MAY 1989							
02...	2.6	460	16	1.1	24	897	21000
272248082164501 VERNA PROD WELL 26 (LAT 27 22 48N LONG 082 16 45W)							
MAY 1989							
02...	--	--	--	--	--	--	--
272248082171901 VERNA PROD. WELL 20 (LAT 27 22 48N LONG 082 17 19W)							
MAY 1989							
02...	--	--	--	--	--	--	--
272248082173601 VERNA PROD WELL 17 (LAT 27 22 48N LONG 082 17 36W)							
MAY 1989							
02...	--	--	--	--	--	--	--
272248082175301 VERNA PROD WELL 14 (LAT 27 22 48N LONG 082 17 53W)							
MAY 1989							
02...	3.1	380	19	1.9	30	808	22000
272248082180801 VERNA PROD WELL 11 (LAT 27 22 48N LONG 082 18 08W)							
MAY 1989							
02...	--	--	--	--	--	--	--
272248082181701 VERNA PROD WELL 8 (LAT 27 22 48N LONG 082 18 17W)							
MAY 1989							
02...	--	--	--	--	--	--	--
272248082184601 VERNA PROD WELL 5 (LAT 27 22 48N LONG 082 18 46W)							
MAY 1989							
02...	--	--	--	--	--	--	--
272248082190301 VERNA PROD WELL 2 (LAT 27 22 48N LONG 082 19 03W)							
MAY 1989							
02...	--	--	--	--	--	--	--
272255082172202 KME RECHARGE WELL NEAR VERNA,FLA (LAT 27 22 55N LONG 082 17 22W)							
JUL 1989							
28...	--	--	19	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
SARASOTA COUNTY							
272256082163501 VERNA PROD WELL 27 (LAT 27 22 56N LONG 082 16 35W)							
MAY 1989							
02...	1118	1190	28.0	<5	150	64	15
272257082162801 VERNA PROD WELL 28 (LAT 27 22 57N LONG 082 16 28W)							
MAY 1989							
02...	1128	980	26.0	--	--	--	--
272257082165401 VERNA PROD WELL 24 (LAT 27 22 57N LONG 082 16 54W)							
MAY 1989							
02...	1104	1160	26.5	--	--	--	--
272257082172801 VERNA PROD WELL 18 (LAT 27 22 57N LONG 082 17 28W)							
MAY 1989							
02...	1008	950	26.5	--	--	--	--
272257082180201 VERNA PROD WELL 12 (LAT 27 22 57N LONG 082 18 02W)							
MAY 1989							
02...	0937	1250	28.0	--	--	--	--
272257082181801 VERNA PROD WELL 9 (LAT 27 22 57N LONG 082 18 18W)							
MAY 1989							
02...	0908	1250	27.5	--	--	--	--
272257082183601 VERNA PROD WELL 6 (LAT 27 22 57N LONG 082 18 36W)							
MAY 1989							
02...	0844	1120	27.0	--	--	--	--
272257082185401 VERNA PROD WELL 3 (LAT 27 22 57N LONG 082 18 54W)							
MAY 1989							
02...	0821	940	27.0	--	--	--	--
272305082190301 VERNA PROD WELL 1 (LAT 27 23 05N LONG 082 19 03W)							
MAY 1989							
02...	1258	1300	29.0	<5	160	72	19
272306082182701 VERNA PROD WELL 7 (LAT 27 23 06N LONG 082 18 27W)							
MAY 1989							
02...	0904	820	25.0	--	--	--	--
272306082184601 VERNA PROD WELL 4 (LAT 27 23 06N LONG 082 18 46W)							
MAY 1989							
02...	0840	800	26.0	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	STRONTIUM, DISSOLVED (UG/L AS SR)
SARASOTA COUNTY							
272256082163501 VERNA PROD WELL 27 (LAT 27 22 56N LONG 082 16 35W)							
MAY 1989							
02...	2.6	500	16	1.0	27	978	13000
272257082162801 VERNA PROD WELL 28 (LAT 27 22 57N LONG 082 16 28W)							
MAY 1989							
02...	--	--	--	--	--	--	--
272257082165401 VERNA PROD WELL 24 (LAT 27 22 57N LONG 082 16 54W)							
MAY 1989							
02...	--	--	--	--	--	--	--
272257082172801 VERNA PROD WELL 18 (LAT 27 22 57N LONG 082 17 28W)							
MAY 1989							
02...	--	--	--	--	--	--	--
272257082180201 VERNA PROD WELL 12 (LAT 27 22 57N LONG 082 18 02W)							
MAY 1989							
02...	--	--	--	--	--	--	--
272257082181801 VERNA PROD WELL 9 (LAT 27 22 57N LONG 082 18 18W)							
MAY 1989							
02...	--	--	--	--	--	--	--
272257082183601 VERNA PROD WELL 6 (LAT 27 22 57N LONG 082 18 36W)							
MAY 1989							
02...	--	--	--	--	--	--	--
272257082185401 VERNA PROD WELL 3 (LAT 27 22 57N LONG 082 18 54W)							
MAY 1989							
02...	--	--	--	--	--	--	--
272305082190301 VERNA PROD WELL 1 (LAT 27 23 05N LONG 082 19 03W)							
MAY 1989							
02...	2.9	580	21	1.2	28	1100	20000
272306082182701 VERNA PROD WELL 7 (LAT 27 23 06N LONG 082 18 27W)							
MAY 1989							
02...	--	--	--	--	--	--	--
272306082184601 VERNA PROD WELL 4 (LAT 27 23 06N LONG 082 18 46W)							
MAY 1989							
02...	--	--	--	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

SARASOTA COUNTY

272307082164501 VERNA PROD WELL 25 (LAT 27 23 07N LONG 082 16 45W)

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	TEMPERATURE WATER (DEG C)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)
MAY 1989							
02...	1108	--	1120	27.0	--	--	--

272307082171801 VERNA PROD WELL 19 (LAT 27 23 07N LONG 082 17 18W)

MAY 1989							
02...	0824	--	970	26.0	--	--	--

272307082175301 VERNA PROD WELL 13 (LAT 27 23 07N LONG 082 17 53W)

MAY 1989							
02...	0948	--	1020	26.5	--	--	--

272307082180901 VERNA PROD WELL 10 (LAT 27 23 07N LONG 082 18 09W)

MAY 1989							
02...	0912	--	980	26.5	--	--	--

272316082302601 SARASOTA CO. T.W. 1 NR SARASOTA,FL (LAT 27 23 16N LONG 082 30 26W)

OCT 1988							
24...	1107	--	1200	25.0	470	51	E933
NOV							
29...	0750	--	1200	25.0	470	49	931
DEC							
27...	0754	--	1120	24.5	430	48	E984
JAN 1989							
24...	0831	--	1150	24.0	540	50	E916
FEB							
21...	0839	500	1170	25.0	450	49	E907
MAR							
15...	0910	500	1180	25.0	470	51	937
APR							
14...	0930	500	1220	25.0	460	50	E974
MAY							
12...	0913	500	1220	25.0	--	48	E973
JUN							
13...	0800	500	1260	25.0	500	55	977
JUL							
18...	0810	500	1260	25.0	470	52	E964
AUG							
11...	0735	500	1260	25.0	480	54	956
SEP							
08...	0800	500	1260	25.0	480	52	E970

272317082290502 SARASOTA CO. T.W. 6A NR SARASOTA, FL (LAT 27 23 17N LONG 082 29 05W)

OCT 1988							
24...	1330	--	1480	25.0	650	43	E1190
NOV							
29...	0915	--	1420	24.0	690	41	1230
DEC							
27...	0920	--	1420	24.0	740	42	E1190
JAN 1989							
24...	0935	--	1420	24.0	740	42	E1200
FEB							
21...	0940	500	1480	24.5	650	42	E1220
MAR							
15...	1015	500	1480	24.5	660	38	1230
APR							
14...	1045	500	1480	25.0	670	41	E1240
MAY							
12...	1015	500	1480	24.5	670	42	1260
JUN							
13...	1000	500	1480	24.5	700	44	E1260
JUL							
18...	0925	500	1520	24.5	690	43	E1260
AUG							
11...	0940	500	1510	24.5	700	46	1260
SEP							
08...	0945	500	1520	24.5	660	44	E1280

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October 1, 1978

FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI).

Multiply inch-pound units	By	To obtain SI units
	Length	
inches (in)	2.54×10^{1}	millimeters (mm)
	2.54×10^{-2}	meters (m)
feet (ft)	3.048×10^{-1}	meters (m)
miles (mi)	1.609×10^{0}	kilometers (km)
	Area	
acres	4.047×10^{3}	square meters (m^2)
	4.047×10^{-1}	square hectometers (hm^2)
	4.047×10^{-3}	square kilometers (km^2)
square miles (mi^2)	2.590×10^{0}	square kilometers (km^2)
	Volume	
gallons (gal)	3.785×10^{0}	liters (L)
	3.785×10^{0}	cubic decimeters (dm^3)
	3.785×10^{-3}	cubic meters (m^3)
million gallons	3.785×10^{3}	cubic meters (m^3)
	3.785×10^{-3}	cubic hectometers (hm^3)
cubic feet (ft^3)	2.832×10^{1}	cubic decimeters (dm^3)
	2.832×10^{-2}	cubic meters (m^3)
cfs-days	2.447×10^{3}	cubic meters (m^3)
	2.447×10^{-3}	cubic hectometers (hm^3)
acre-feet (acre-ft)	1.233×10^{3}	cubic meters (m^3)
	1.233×10^{-3}	cubic hectometers (hm^3)
	1.233×10^{-6}	cubic kilometers (km^3)
	Flow	
cubic feet per second (ft^3/s)	2.832×10^{1}	liters per second (L/s)
	2.832×10^{1}	cubic decimeters per second (dm^3/s)
	2.832×10^{-2}	cubic meters per second (m^3/s)
gallons per minute (gal/min)	6.309×10^{-2}	liters per second (L/s)
	6.309×10^{-2}	cubic decimeters per second (dm^3/s)
	6.309×10^{-5}	cubic meters per second (m^3/s)
million gallons per day	4.381×10^{1}	cubic decimeters per second (dm^3/s)
	4.381×10^{-2}	cubic meters per second (m^3/s)
	Mass	
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons

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